



August 3, 2015

Mr. Terry Tanner
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

Subject: Removal Assessment Letter Report
American Sealcoat
Atlanta, Fulton County, Georgia
Contract Number: EP-54-14-03
TDD Number: TT-02-006

Dear Mr. Tanner:

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting this report to summarize the removal assessment activities and site documentation conducted on March 3 and March 24, 2015 at the American Sealcoat site in Atlanta, Fulton County, Georgia. This report includes five enclosures and one attachment. Enclosure 1 contains figures illustrating the site layout and location and the locations of soil, sediment, and surface water samples. Enclosure 2 contains data summary tables summarizing the analytical results. Enclosure 3 contains a photographic log of activities. Enclosure 4 contains copies of the analytical data validation documentation for the soil, sediment, and surface water samples collected during the assessment. Enclosure 5 contains a copy of the Tetra Tech START logbook notes. Attachment 1 contains a copy of laboratory analytical data packages.

EXECUTIVE SUMMARY

On March 3, 2015, Tetra Tech START and U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) Jeff Crowley visited the American Sealcoat site to conduct a site walk. Tetra Tech START and OSC Crowley returned to the site on March 24, 2015 to conduct assessment activities, which included the collection of soil, sediment, and surface water samples. Laboratory analytical results from sample analysis identified detectable concentrations of polycyclic aromatic hydrocarbons (PAHs) in soil samples collected along the northern boundary of the site and sediment samples collected from the Georgia Department of Transportation (GDOT) drainage pathway.

BACKGROUND

The American Sealcoat site is a 1.32 acre lot located at 525 Frederick Court, Atlanta, Georgia and zoned for industrial use (see Figure 2 in Enclosure 1). The site's former tenant manufactured sealant coatings for asphalt. Currently, the neighboring properties are occupied and zoned for industrial use with an active asphalt sealant production facility located adjacent to the western property boundary.

The site contains a vacant warehouse building, parking lot, and grassy landscaped areas. During the initial site reconnaissance, Tetra Tech START noted that the site is adjacent to Interstate 20 (I-20) and DOT-owned and managed property to the north (see Figure 2 in Enclosure 1). This DOT-owned property contains a weather-dependent drainage pathway leading to a storm drain. The exact pathway of this drainage area was indeterminable during field activities, but is suspected to route water beneath I-20, then west where it discharges to the nearby Chattahoochee River. GDOT granted EPA access to perform assessment activities.

ASSESSMENT ACTIVITIES

March 3, 2015

On March 3, 2015, Tetra Tech START arrived on site with OSC Crowley to conduct a site walk, assess site conditions, and meet with property owner representatives. GDOT officials were also on site to participate in the assessment. The drainage pathway north of the facility was assessed for visual evidence of potential contamination.

March 24, 2015

On March 24, 2015, Tetra Tech START and OSC Crowley arrived on site to collect soil, sediment, and surface water samples from the northern portion of the site and from the GDOT-owned property. Soil and sediment samples were collected with stainless steel spoons and augurs and homogenized in aluminum pans. Sample media was placed in laboratory-supplied containers within the first 15 minutes of collection and submitted to Gulf Coast Analytical Laboratories for semivolatile organic compounds (SVOCs) and Resource Conservation and Recovery Act (RCRA) metals analyses. The remaining sample material in the pan was allowed to air dry and placed in Ziploc bags for *ex-situ* x-ray fluorescence (XRF) screening. *Ex-situ* XRF screening was used to estimate the concentrations of metals in the soil and sediment samples before laboratory results were available. XRF screening was conducted with a field portable DELTA Premium model XRF instrument using EPA method 6200. Figure 3 in Enclosure 2 depicts sampling locations. Tables 1 and 2 of Enclosure 2 provide analytical results for surface soil samples and sediment samples.

Multi-Media Sampling

Surface soil (SS) samples were collected from the northern, unpaved area of the site (see Figure 2 in Enclosure 1). These samples were often overlaid by varying depths of gravel or red clay, which contrasted with the dark brown native material found beneath. Tetra Tech START attempted to collect the samples outside of the gravel area or below the gravel and clay layers. Soil sample AS-032415-SS-08 was collected from the southern area of the site to provide local background references for the surface soil samples. Laboratory analytical results and XRF screening results did not identify metals above background concentrations in surface soil samples. Laboratory analytical results for surface soil samples revealed detectable concentrations of 17 PAHs, including benzo(a)pyrene, which ranged from an estimated 66.8 micrograms per kilogram ($\mu\text{g}/\text{kg}$) to 122,000 $\mu\text{g}/\text{kg}$. Sampling locations are depicted on Figure 3 in Enclosure 1. A summary of surface soil laboratory analytical results is provided in Table 1 of Enclosure 2.

Sediment (SD) samples were collected from near or in the drainage pathway, north of the site on GDOT-owned property (see Figure 3 in Enclosure 1). Storm water runoff from both the site and the adjacent asphalt sealant facility discharge to the drainage pathway on GDOT property (northwestern corner of the site). Sediment sample AS-03242015-SD-02 was collected down gradient of the point where storm water enters GDOT property. Sediment sample AS-032415-SD-01 was collected up gradient of the site, within the drainage path, to provide a background reference for the down gradient sediment samples. Metals were not detected above background levels in sediment samples. Laboratory analytical results for the sediment samples revealed detectable concentrations of 17 PAHs, including benzo(a)pyrene, which ranged from an estimated 121 $\mu\text{g}/\text{kg}$ to 49,000 $\mu\text{g}/\text{kg}$. Sampling locations are depicted on Figure 3 in Enclosure 1. A summary of sediment laboratory analytical results is provided in Table 2 of Enclosure 2.

Mr. T. Tanner

August 3, 2015

Page 3

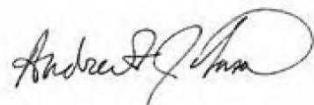
A surface water sample was collected from the GDOT property where storm water from the site and adjacent asphalt sealant property enter the GDOT property (see Figure 3 in Enclosure 1). Light rain was encountered during the site visit on March 3, 2015. Water was observed draining from the site parking lot and the adjacent asphalt sealant facility parking lot into the drainage pathway on the GDOT property. During the sampling event on March 24, 2015, Tetra Tech START noted that the water was stagnant and not flowing from the pool. Laboratory analytical results detected low concentrations of metals in the surface water sample and concentrations of 12 PAHs, including benzo(a)pyrene at a concentration of 11 µg/L. The sampling location is depicted on Figure 2 in Enclosure 1. A summary of the surface water laboratory analytical results is provide in Table 3 of Enclosure 2.

If you have any questions or need additional copies of this report, please contact me, Leslie Shaver, at (678) 775-3093 or Darren Wilson at (678) 775-3118.

Sincerely,



Leslie Shaver
Tetra Tech START IV Project Manager



Andrew F. Johnson
Tetra Tech START IV Program Manager

Enclosures (5)
Attachment (1)

cc: Katrina Jones, EPA Project Officer
Angel Reed, Tetra tech START IV Document Control Coordinator

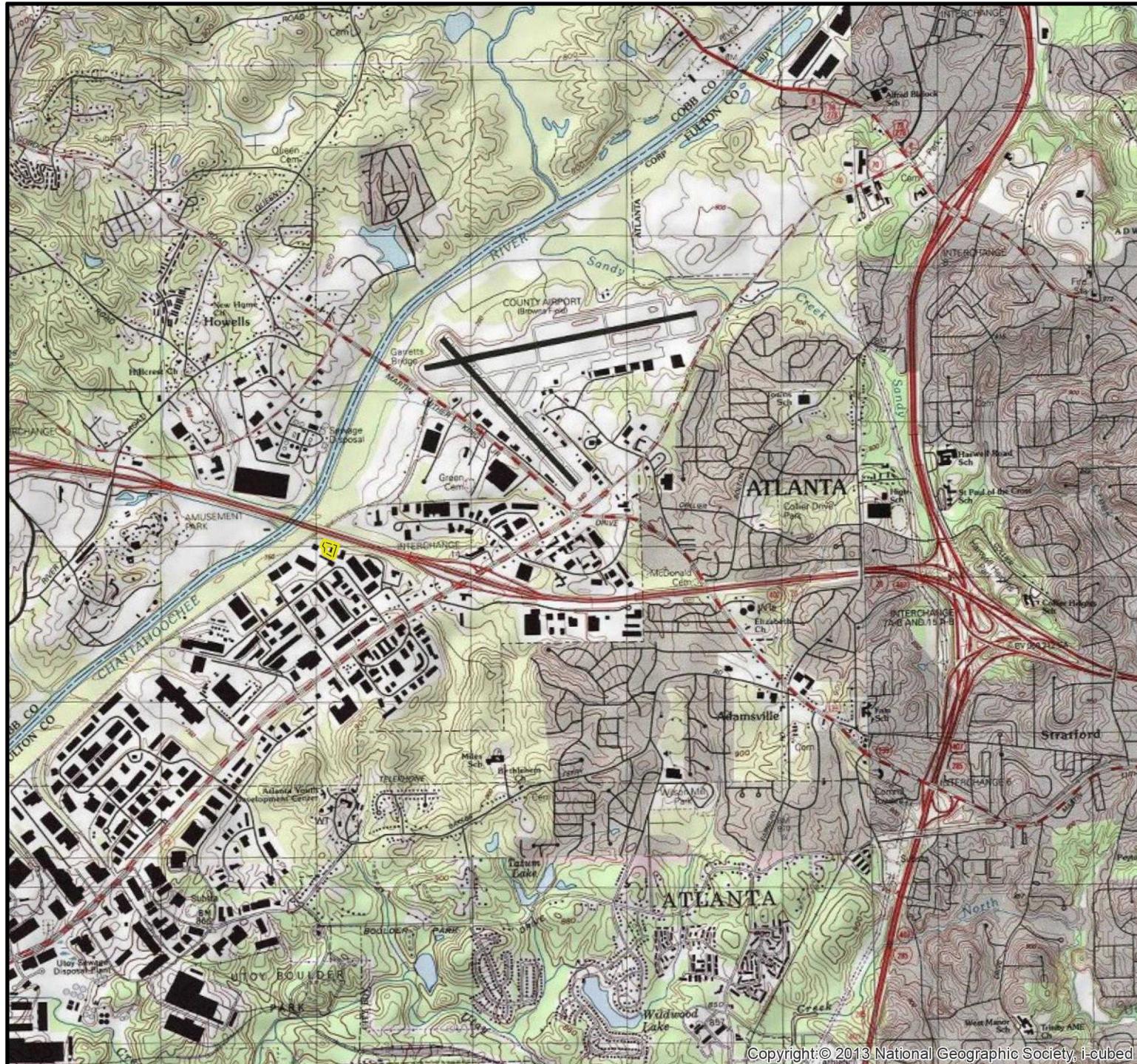
ENCLOSURE 1

FIGURES

(Three Pages)

FIGURE

- 1 SITE LOCATION
- 2 SITE LAYOUT
- 3 SAMPLING LOCATIONS



Legend

Site Boundary



0 1,500 3,000
Feet

Map Sources:
Fulton County Property Office, 2014.
ESRI Aerial Imagery, 2012.



United States
Environmental Protection Agency
Region 4

FIGURE 1

Site Location

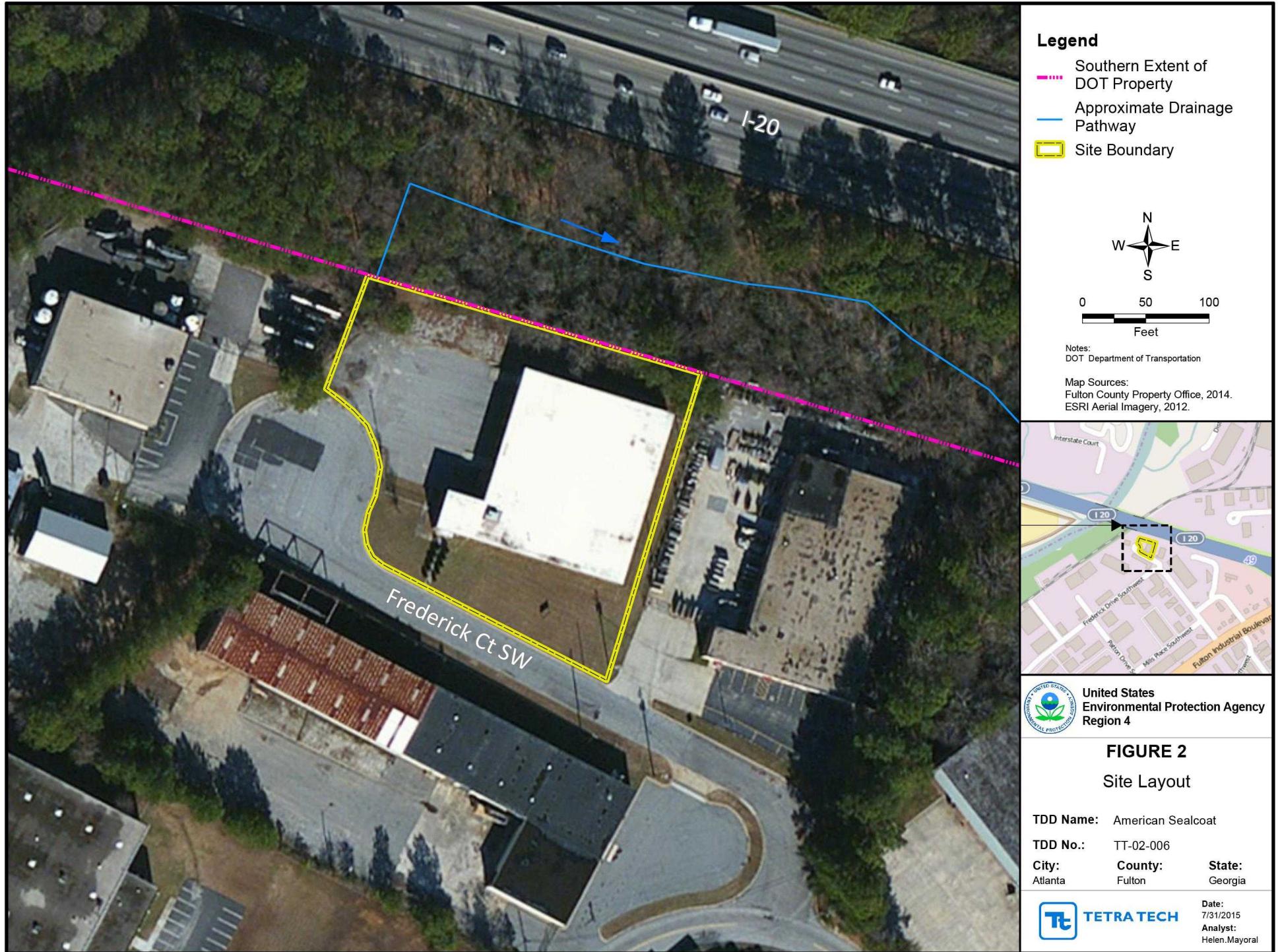
TDD Name: American Sealcoat

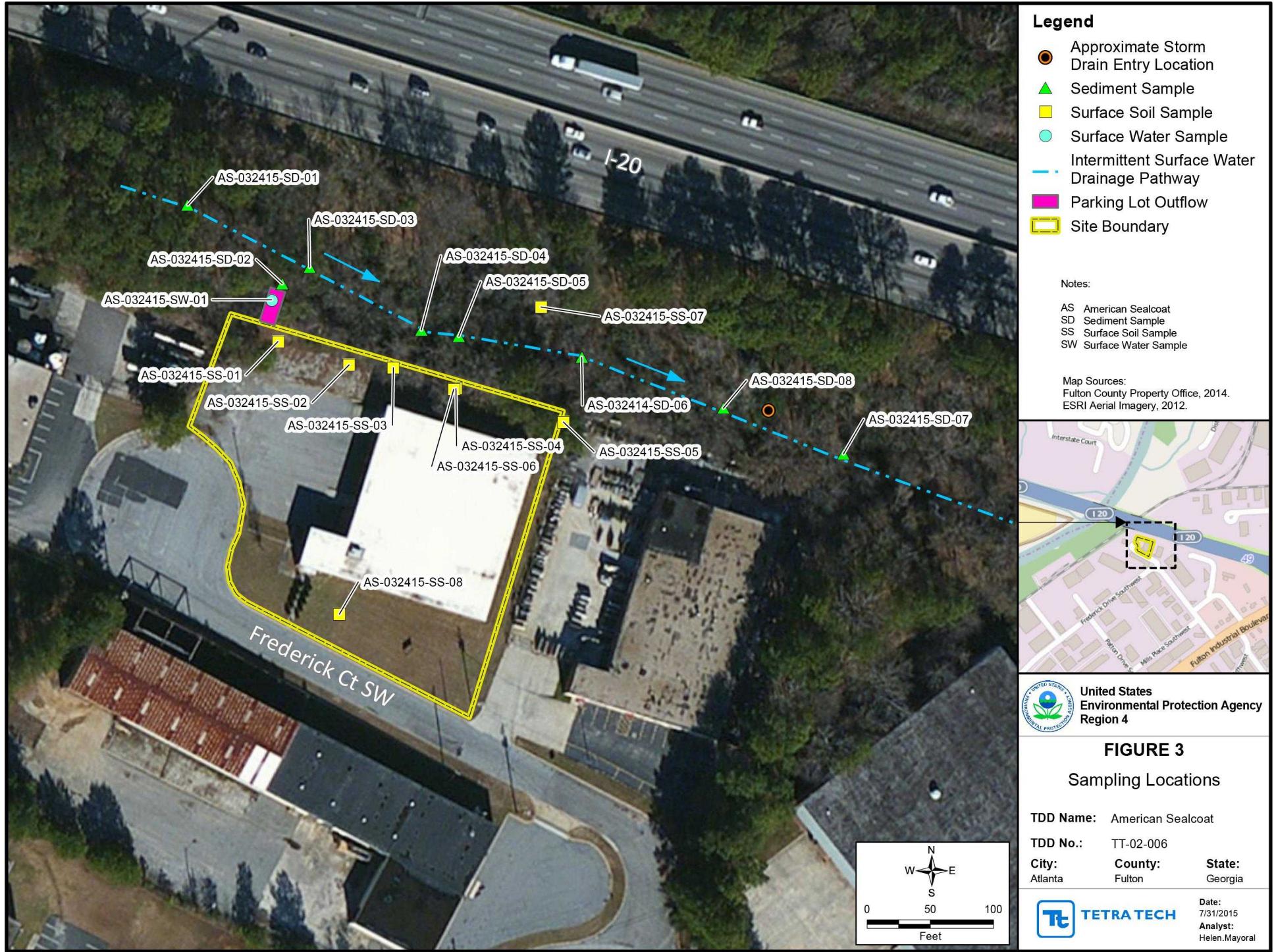
TDD No.: TT-02-006

City: Atlanta County: Fulton State: Georgia

Date:
7/31/2015
Analyst:
Helen.Mayoral

TETRA TECH





ENCLOSURE 2
DATA SUMMARY TABLES
(Seven Pages)

TABLE

- 1 ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
- 2 ANALYTICAL RESULTS FOR SEDIMENT SAMPLES
- 3 ANALYTICAL RESULTS FOR SURFACE WATER SAMPLE

TABLE 1
AMERICAN SEALCOAT SITE
ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES

Analyte	AS-032415-SS-01	AS-032415-SS-02	AS-032415-SS-03	AS-032415-SS-04	AS-032415-SS-05
Semivolatile Organic Compounds (µg/kg)					
Bis(2-Ethylhexyl)phthalate	46.3 U	17.9 J	463 U	924 U	46.8 U
Carbazole	1,550 J	55.8 J	12,400 J	43,900 J	63.8 U
Dibenzofuran	954 J	8.26 J	9,080 J	39,000 J	62.8 U
Di-n-butyl phthalate	63.2 U	11.9 J	632 U	1,260 U	63.8 U
Pentachlorophenol	73.2 U	7.29 U	3,420 J	1,460 U	73.9 U
Polycyclic Aromatic Hydrocarbons (µg/kg)					
2-Methylnaphthalene	113 J	4.7 U	1,720 J	11,900 J	47.6 U
Acenaphthene	2,030 J	20.2 J	15,500 J	59,900 J	101 U
Acenaphthylene	66.8 U	24.4 J	14,200 J	1,330 U	67.5 U
Anthracene	6,460	121 J	99,300	142,000	76.4 J
Benzo(a)anthracene	12,200	472	104,000	138,000	170 J
Benzo(a)pyrene	12,400	686	60,100	122,000	241 J
Benzo(b)fluoranthene	14,400	882	159,000	136,000	395 J
Benzo(g,h,i)perylene	8,530	691	46,700	80,100	281 J
Benzo(k)fluoranthene	5,890	324 J	67,700	56,200 J	150 J
Chrysene	12,500	506	134,000	126,000	240 J
Dibenz(a,h)anthracene	2,010 J	161 J	19,500 J	19,400 J	86.5 J
Fluoranthene	33,700	808	221,000	472,000	354 J
Fluorene	2,510 J	25.3 J	19,700 J	69,200	59.5 U
Indeno(1,2,3-cd)pyrene	8,960	696	63,100	84,800	312 J
Naphthalene	102 U	10.2 U	1,020 U	28,900 J	103 U
Phenanthrene	18,000	292 J	87,500	435,000	83 J
Pyrene	23,900	720	153,000	284,000	262 J
Metals (mg/kg)					
Arsenic	0.6340	0.367 J	0.933	1.29	0.902
Barium	52.3	48.2	87.4	51.9	69.3
Cadmium	0.1140 J	0.1 U	0.998	0.212 J	0.145 J
Chromium	10.1	13.6	6.4	12.2	10.1
Lead	26.7	11.1	32.1	42.6	47.1
Mercury	0.0280	0.0098 J	0.18	0.017	0.036
Selenium	0.0992 U	0.1 U	0.1 U	0.1 U	0.0977 U
Silver	0.0992 U	0.1 U	0.1 U	0.1 U	0.0977 U

TABLE 1
AMERICAN SEALCOAT SITE
ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES

Analyte	AS-032415-SS-06	AS-032415-SS-06-DUP	AS-032415-SS-07	AS-032415-SS-08
Semivolatile Organic Compounds (µg/kg)				
Bis(2-Ethylhexyl)phthalate	46 U	26.8 J	22.3 J	4.68 U
Carbazole	5,200	71.7 J	6.38 U	6.97 J
Dibenzofuran	4,000	34.7 J	6.28 U	6.28 U
Di-n-butyl phthalate	62.8 U	6.38 U	9.11 J	9.88 J
Pentachlorophenol	72.7 U	7.39 U	7.39 U	7.39 U
Polycyclic Aromatic Hydrocarbons (µg/kg)				
2-Methylnaphthalene	1,350 J	10.5 J	4.76 U	4.76 U
Acenaphthene	5,700	68.7 J	10.1 U	10.1 U
Acenaphthylene	66.4 U	6.75 U	6.75 U	6.75 U
Anthracene	15,500	232 J	6.79 U	10.9 J
Benzo(a)anthracene	22,500	736 J	42.5 J	108 J
Benzo(a)pyrene	20,400	832 J	66.8 J	144 J
Benzo(b)fluoranthene	24,400	974 J	93.3 J	221 J
Benzo(g,h,i)perylene	9,650	550 J	85.5 J	158 J
Benzo(k)fluoranthene	8,970	413 J	29.2 J	63.1 J
Chrysene	20,000	738 J	63 J	148 J
Dibenz(a,h)anthracene	3,080 J	154 J	17.8 J	24.7 J
Fluoranthene	64,300	1,560 J	84.4 J	220 J
Fluorene	7,480	76.8 J	5.95 U	5.95 U
Indeno(1,2,3-cd)pyrene	11,900	618 J	81.5 J	152 J
Naphthalene	2,900 J	14.7 J	10.3 U	10.3 U
Phenanthrene	44,400	747 J	20.6 J	54.6 J
Pyrene	34,600	1,160 J	79.9 J	202 J
Metals (mg/kg)				
Arsenic	0.99	1.03	0.816	0.617 J
Barium	64.5	68.4	81.1	58.9
Cadmium	0.144 J	0.122 J	0.127 J	0.15 J
Chromium	3.76	3.44	11.4	20.5
Lead	43.5	39	38.7	64.2
Mercury	0.023	0.025	0.027	0.018
Selenium	0.1 U	0.1 U	0.0977 U	0.1 U
Silver	0.1 U	0.1 U	0.0977 U	0.1 U

TABLE 1
AMERICAN SEALCOAT SITE
ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES

Notes:

AS	American Sealcoat
DUP	Duplicate sample
J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
µg/kg	Micrograms per kilogram
mg/kg	Milligrams per kilogram
SS	Surface soil sample
U	The analyte was not detected at or above the associated value (reporting limit [RL]).

TABLE 2
AMERICAN SEALCOAT SITE
ANALYTICAL RESULTS FOR SEDIMENT SAMPLES

Analyte	AS-032415-SD-01	AS-032415-SD-02	AS-032415-SD-03	AS-032415-SD-04	AS-032415-SD-05
Semivolatile Organic Compounds (µg/kg)					
Benzaldehyde	50 J	800 U	634 U	320 U	318 U
Bis(2-Ethylhexyl)phthalate	27.1 J	1,610 J	423 J	443 J	46.5 U
Butyl benzyl phthalate	6.57 U	165 U	130 U	65.9 U	490 J
Carbazole	8.64 J	3,240 J	787 J	1,280 J	594 J
Dibenzofuran	6.26 U	157 U	219 J	227 J	62.4 U
Di-n-butyl phthalate	6.36 U	160 U	126 U	63.8 U	63.4 U
Polycyclic Aromatic Hydrocarbons (µg/kg)					
2-Methylnaphthalene	4.74 U	175 J	94.3 U	47.6 U	47.3 U
Acenaphthene	10.1 U	2,190 J	565 J	764 J	495 J
Acenaphthylene	6.73 U	169 U	134 U	422 J	267 J
Anthracene	12.2 J	7,760 J	1,890 J	3,030 J	1,740 J
Benzo(a)anthracene	84.8 J	34,400	9,200	29,600	19,400
Benzo(a)pyrene	121 J	49,000	13,600	39,700	27,600
Benzo(b)fluoranthene	182 J	56,200	15,300	51,100	34,000
Benzo(g,h,i)perylene	159 J	42,600	12,700	27,400	16,800
Benzo(k)fluoranthene	59.7 J	20,800	5,350 J	16,100	11,800
Chrysene	120 J	37,600	9,550	31,500	19,600
Dibenz(a,h)anthracene	32.2 J	11,100	2,950 J	10,300	4,970
Fluoranthene	178 J	82,600	20,400	62,700	40,500
Fluorene	5.9 U	2,520 J	658 J	731 J	445 J
Indeno(1,2,3-cd)pyrene	152 J	45,500	13,100	31,000	19,000
Naphthalene	10.3 U	385 J	204 U	103 U	102 U
Phenanthrene	46.8 J	27,500	6,880	11,700	5,880
Pyrene	154 J	47,000	91.7 U	39,400	24,700
Metals (mg/kg)					
Arsenic	0.752	0.696	0.984	1.09	1.12
Barium	39.7	53.8	47.9	60.2	72.9
Cadmium	0.0984	0.186 J	0.199 J	0.376 J	0.476
Chromium	3.66 U	7.65	8.64	12	11
Lead	56.8	41.4	46	48.4	49.6
Mercury	0.06	0.01 J	0.021	0.029	0.045
Selenium	0.0984 U	0.1 U	0.0969 U	0.1 U	0.0992 U
Silver	0.0984 U	0.104 J	0.0969 U	0.112 J	0.107 J

TABLE 2
AMERICAN SEALCOAT SITE
ANALYTICAL RESULTS FOR SEDIMENT SAMPLES

Analyte	AS-032415-SD-06	AS-032415-SD-07	AS-032415-SD-08
Semivolatile Organic Compounds (µg/kg)			
Benzaldehyde	315 U	315 U	317 U
Bis(2-Ethylhexyl)phthalate	46 U	740 J	457 J
Butyl benzyl phthalate	64.8 U	64.8 U	65.2 U
Carbazole	209 J	153 J	116 J
Dibenzofuran	61.8 U	61.8 U	62.2 U
Di-n-butyl phthalate	62.8 U	62.8 U	115 J
Polycyclic Aromatic Hydrocarbons (µg/kg)			
2-Methylnaphthalene	46.8 U	46.8 U	47.1 U
Acenaphthene	118 J	99.3 U	100 U
Acenaphthylene	115 J	66.4 U	66.8 U
Anthracene	411 J	131 J	244 J
Benzo(a)anthracene	5,420	1,290 J	4,710
Benzo(a)pyrene	8,000	1,710 J	6,440
Benzo(b)fluoranthene	10,000	2,610 J	8,050
Benzo(g,h,i)perylene	5,380	1,300 J	6,210
Benzo(k)fluoranthene	3,730	806 J	3,250 J
Chrysene	5,860	1,690 J	4,680
Dibenz(a,h)anthracene	1,440 J	353 J	1,360 J
Fluoranthene	12,400	3,560	8,920
Fluorene	110 J	58.5 U	58.90 U
Indeno(1,2,3-cd)pyrene	6,160	1,460 J	6,410
Naphthalene	101 U	101 U	102 U
Phenanthrene	1,620 J	853 J	1,350 J
Pyrene	7,150	2,070 J	7,930
Metals (mg/kg)			
Arsenic	0.732	0.809	0.961
Barium	30.2	59.4	66.9
Cadmium	0.127 J	0.213 J	0.374 J
Chromium	8.16	13.4	9.94
Lead	21.8	25.2	34.3
Mercury	0.029	0.012	0.029
Selenium	0.1 U	0.1 U	0.1 U
Silver	0.136 J	0.138 J	0.113 J

TABLE 2
AMERICAN SEALCOAT SITE
ANALYTICAL RESULTS FOR SEDIMENT SAMPLES

Notes:

AS	American Sealcoat
J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample
µg/kg	Micrograms per kilogram
mg/kg	Milligrams per kilogram
SD	Sediment sample
U	The analyte was not detected at or above the associated value (reporting limit [RL])

TABLE 3
AMERICAN SEALCOAT SITE
ANALYTICAL RESULTS FOR SURFACE WATER SAMPLE

Analyte	AS-032415-SW-01
Semivolatile Organic Compounds (µg/L)	
Biphenyl	1.40 J
Carbazole	2.46 J
Dibenzofuran	1.08 J
Polycyclic Aromatic Hydrocarbons (µg/L)	
Acenaphthene	1.3 J
Benzo(a)anthracene	11.8
Benzo(a)pyrene	11
Benzo(b)fluoranthene	17
Benzo(g,h,i)perylene	3 J
Benzo(k)fluoranthene	6.3 J
Chrysene	14
Dibenz(a,h)anthracene	3.5 J
Fluoranthene	61
Fluorene	2.0 J
Indeno(1,2,3-cd)pyrene	9 J
Phenanthrene	12.6
Metals (µg/L)	
Arsenic	0.45 J
Barium	26.9
Cadmium	0.25 U
Chromium	0.81 J
Lead	1.53
Mercury	0.043 U
Selenium	0.25 U
Silver	0.25 U

Notes:

AS

American Sealcoat

J

The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

PAH

Polycyclic aromatic hydrocarbons

SW

Surface water sample

U

The analyte was not detected at or above the associated value (reporting limit [RL]).

ENCLOSURE 3
PHOTOGRAPHIC LOG
(10 Pages)



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: 0002/TT-02-006

Location: American Sealcoat

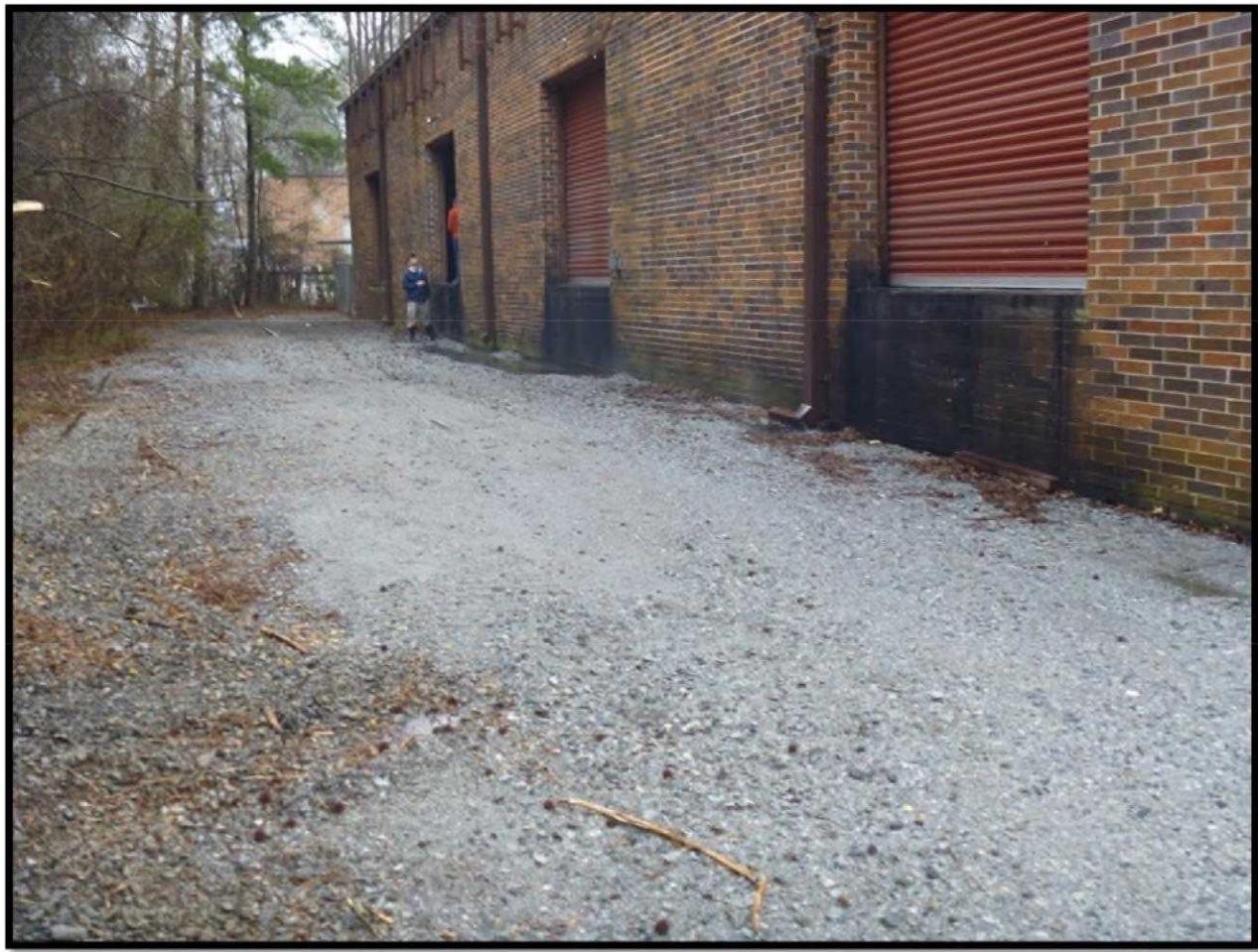
Orientation: Northeast

Date: March 3, 2015

Photographer: Leslie Shaver, Tetra Tech, Inc.
(Tetra Tech)

Witness: Jeff Crowley, U.S. Environmental
Protection Agency (EPA)

Subject: View of northwestern corner of building and gravel area north of site parking lot.
During assessment activities, Tetra Tech noted that this area had recently been
backfilled with varying depths of gravel or red clay.



**OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: 0002/TT-02-006

Location: American Sealcoat

Orientation: Southeast

Date: March 3, 2015

Photographer: Leslie Shaver, Tetra Tech

Witness: Jeff Crowley, EPA

Subject: View of northern side of site building and gravel area north of building.



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E3-2

TDD No.0002/TT-02-006

American Sealcoat



OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: 0002/TT-02-006

Location: American Sealcoat

Orientation: North

Date: March 3, 2015

Photographer: Leslie Shaver, Tetra Tech

Witness: Jeff Crowley, EPA

Subject: View of drainage pathway from storm water drainage in northwestern portion of site onto Georgia Department of Transportation (GDOT) property. This drainage pathway receives storm water runoff from both the site and the adjacent property, which currently operates as an asphalt sealant production facility.



**OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: 0002/TT-02-006

Location: American Sealcoat

Orientation: Southwest

Date: March 3, 2015

Photographer: Leslie Shaver, Tetra Tech

Witness: Jeff Crowley, EPA

Subject: View of outflow of storm drainage in northwestern area of site that receives storm water runoff from both the site and the adjacent asphalt sealant production facility.



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E3-4

TDD No.0002/TT-02-006

American Sealcoat



**OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: 0002/TT-02-006

Location: American Sealcoat

Orientation: Northeast

Date: March 3, 2015

Photographer: Leslie Shaver, Tetra Tech

Witness: Jeff Crowley, EPA

Subject: View of storm drainage area. Storm water flows beneath Interstate-20.



**OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: 0002/TT-02-006

Location: American Sealcoat

Orientation: Northeast

Date: March 24, 2015

Photographer: Chris Jones, Tetra Tech

Witness: Darren Wilson, Tetra Tech

Subject: View of soil sample collection for AS-032415-SS-03.



**OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: 0002/TT-02-006

Location: American Sealcoat

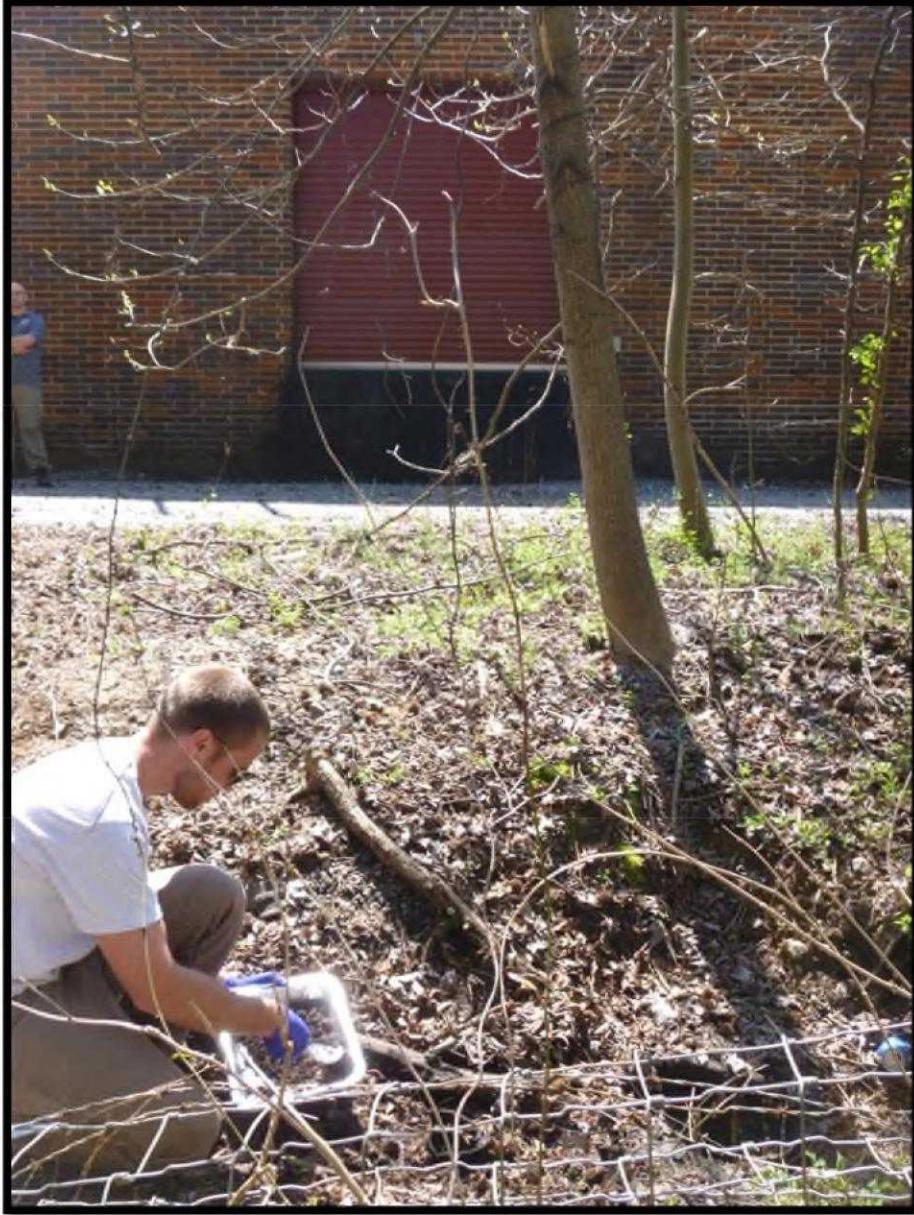
Orientation: Northwest

Date: March 24, 2015

Photographer: Chris Jones, Tetra Tech

Witness: Darren Wilson, Tetra Tech

Subject: View of soil sample collection for AS-032415-SS-04.



OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: 0002/TT-02-006

Location: American Sealcoat

Orientation: South

Date: March 24, 2015

Photographer: Chris Jones, Tetra Tech

Witness: Darren Wilson, Tetra Tech

Subject: View of soil sample collection for AS-032415-SS-06.



**OFFICIAL PHOTOGRAPH NO. 9
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: 0002/TT-02-006

Location: American Sealcoat

Orientation: Southwest

Date: March 24, 2015

Photographer: Chris Jones, Tetra Tech

Witness: Darren Wilson, Tetra Tech

Subject: View of surface water sample collection for AS-032415-SW-01.



**OFFICIAL PHOTOGRAPH NO. 10
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: 0002/TT-02-006

Location: American Sealcoat

Orientation: South

Date: March 24, 2015

Photographer: Chris Jones, Tetra Tech

Witness: Darren Wilson, Tetra Tech

Subject: View of sediment sample collection for AS-032415-SD-02.



TETRA TECH

E3-10

TDD No.0002/TT-02-006

American Sealcoat

ENCLOSURE 4
DATA VALIDATION DOCUMENTATION
(Six Pages)



DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 6)

Site Name	American Sealcoat	Project No.	TT-02-006
Data Reviewer (signature and date)	<i>Jessica A. Vickers</i> June 5, 2015	Laboratory/Report No.	Gulf Coast Analytical Laboratories/ 215032715
Analyses	Semivolatile Organic Compounds (SVOCs) – SW8270C and Resource Conservation and Recovery Act (RCRA) Metals – SW6020A/7471B/7470A		
Samples	AS-032415-SD-01; AS-032415-SD-02; AS-032415-SD-03; AS-032415-SD-04; AS-032415-SD-05; AS-032415-SD-06; AS-032415-SD-07; AS-032415-SD-08; AS-032415-SS-01; AS-032415-SS-02; AS-032415-SS-03; AS-032415-SS-04; AS-032415-SS-05; AS-032415-SS-06; AS-032415-SS-07; AS-032415-SS-08; and AS-032415-SW-01		
Field Duplicate Pairs	AS-032415-SS-06 and AS-032415-SS-06-DUP		
Field Blanks	AS-032415-EQ-01 and AS-032415-FB-01		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (August 2014), the EPA *CLP NFG for Inorganic Superfund Data Review* (August 2014) data validation guidance documents, as well as the above referenced methods.

Data completeness:

Within Criteria	Exceedance/Notes
N	Data was originally submitted without reporting results down to the MDL – laboratory reissued corrected report on May 22, 2015.

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	Sample AS-032415-FB-01 was not listed on the COC – laboratory logged this sample in from labels.

DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 6)

Method blanks:

Within Criteria	Exceedance/Notes
N	MB555081: barium = 14.5 µg/kg – no action (associated results greater than 10 times blank value)

Field blanks:

Within Criteria	Exceedance/Notes
N	AS-032415-EQ-01: chromium = 0.28 µg/L – no action (associated results greater than 10 times equivalent blank value)

System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
N	Surrogates were diluted out for AS-032415-SD-02; AS-032415-SD-03; AS-032415-SD-04; AS-032415-SD-05; AS-032415-SD-06; AS-032415-SD-07; AS-032415-SD-08; AS-032415-SS-01; AS-032415-SS-03; AS-032415-SS-04; AS-032415-SS-05; and AS-032415-SS-06 – no action per NFGs

MS/MSD:

Within Criteria	Exceedance/Notes
N	AS-032415-SS-08: No %Rs for 3,3'-dichlorobenzidine and selenium – flag “R” High %Rs for atrazine – no action (associated result non-detect) Low %Rs for arsenic – flag “J-” High %Rs for barium, chromium, and lead – no action (result greater than four times spike concentration)

DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 6)

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
N	AS-032415-SS-06/AS-032415-SS-06-DUP: duplicate precision criteria exceeded for 2-methylnaphthalene; acenaphthene; anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; carbazole; chrysene; dibenzo(a,h)anthracene; dibenzofuran; fluoranthene; fluorene; indeno(1,2,3-cd)pyrene; naphthalene; phenanthrene; pyrene – flag results “J” for both samples

Total versus dissolved metals results evaluation:

Within Criteria	Exceedance/Notes
NA	

DATA VALIDATION CHECKLIST – STAGE 2A

(Page 4 of 6)

LCSS/LCSDs:

Within Criteria	Exceedance/Notes
N	<p><u>SVOCs – water:</u> High %Rs for atrazine and benzaldehyde – no action (associated results non-detect)</p> <p>High RPDs for 2-chlorophenol; 2-nitrophenol; acetophenone; bis(2-chloroethyl)ether; bis(2-chloroisopropyl)ether; hexachlorobutadiene; hexachlorocyclopentadiene; hexachloroethane; and naphthalene – no action (associated results non-detect)</p> <p><u>SVOCs – soil:</u> High %Rs for atrazine – no action (associated results non-detect)</p>

Toxicity equivalents (TEQs) and isomer specificity (dioxins/furans, cBaP, and PCB congeners only):

Within Criteria	Exceedance/Notes
NA	

Sample dilutions:

Within Criteria	Exceedance/Notes
N	<p>10x: SVOCs and metals (excluding mercury) for AS-032415-SD-04; AS-032415-SD-05; AS-032415-SD-06; AS-032415-SD-07; AS-032415-SD-08; AS-032415-SS-01; AS-032415-SS-05; and AS-032415-SS-06</p> <p>10x: metals (excluding mercury) for AS-032415-SD-01; AS-032415-SD-02; AS-032415-SD-03; AS-032415-SS-02; AS-032415-SS-03; AS-032415-SS-04; AS-032415-SS-06-DUP; AS-032415-SS-07; and AS-032415-SS-08</p> <p>20x: SVOCs for AS-032415-SD-03</p> <p>100x: SVOCs for AS-032415-SS-03</p> <p>25x: SVOCs for AS-032415-SD-02</p> <p>200x: SVOCs for AS-032415-SS-04</p>



DATA VALIDATION CHECKLIST – STAGE 2A

(Page 5 of 6)

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

Estimated detection limit (EDL), estimated maximum possible concentration (EMPC), and target analyte identification (dioxins/furans only):

Within Criteria	Exceedance/Notes
NA	

MDLs/RRLs:

Within Criteria	Exceedance/Notes
Y	Results between the MDL and RL flagged "J" by laboratory.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

DATA VALIDATION CHECKLIST – STAGE 2A

(Page 6 of 6)

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

ENCLOSURE 5
LOGBOOK NOTES
(11 Pages)



Rite in the Rain®
ALL-WEATHER
JOURNAL
Nº 390N

American Seal coat
TT-02-006

CONTENTS

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ALL-WEATHER WRITING PAPER



**ALL-WEATHER
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Project American Sealcoat 1102-006

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2

3/3/15 American Sealcoat L.Shaver
 0950 START to 4300 Fredericks Dr, Atlanta, GA
 to ~~work~~ perform site visit —
 Weather: overcast, light rain, and in the 50's —
 property and buildings were previously an asphalt
 sealant company
 company (at least at this location) is bankrupt
 200 ppm Benzo(a)pyrene sample result for
 soil from the area —
 - site photos logged on pg —
 - 1020 START, OSC Crowley and 2 owner
 reps. Betty Nasuti, 770-518-1100 ext 234
 cell: 404-431-6359, General Counsel for owner
 David Mansfield, project manager for owner,
 678-300-8686

GDOT - Darrill Williams, & Brad Smith
 walk "upstream", West of American Sealcoat

3

3/24/15 American Sealcoat D.Wilson
 0830 START Wilson and Jones arrive at
 site. Review HASP and QAPP. Set pins
 at sample locations and look over site.
 0830 OSC Crowley and Kirk ~~Trespasser~~ ^{Kirk} arrive on site.
~~Kirk Trespasser Attorney for PCT Env Engineers~~
 0950 Begin soil sampling on NW corner of
 property → AS-032415-SS-01 —
 - Fill material brought onsite so first remove
 the top ~6-in. Gravel observed & about
 6-in, sample 6-9 inches —
 0955 Collect AS-032415-SS-01 sample.
 1018 Collect AS-032415-SS-02 —
 - Approx 3-in of fill material removed
 1027 Collect AS-032415-SS-03 —
 - No fill material observed, slight
 creosote odor noted —
 1042 Collect AS-032415-SS-04 from stained
 soil location, No fill material removed
 1050 Collect AS-032415-SS-05 No fill material
 1113 Collect AS-032415-SD-01 up gradient
 at site (west). —
 1130 Collect AS-032415-SD-02 down gradient
 of stormwater outfall b/t Am Sealcoat
 and Seal Masters —

✓ CJA ✓

4
3/24/15Photo log

#	<u>Orientation</u>	<u>Subject</u>
979	NW	Sampling at AS-032415- SD-01
978	N	Sampling at AS-032415- SD-02
979	NE	Sampling at AS-032415-SD-03
980	NW	" " AS-032415-SD-04
981	NE	" " AS-032415-SD-05
982	S	" " AS-032415-SD-01
983	S	" " AS-032415-SD-02
984	W	" " AS-032415-SD-03
985	S	" " AS-032415-SD-04
986	S	Free product at outfall from Am Seal cont (W. outfall).
987	S	Sampling location of AS-032415-SD-05
988	S	" " at AS-032415-SD-06
989	S	" " AS-032415-SD-07
990	S	" " AS-032415-SD-08
991	S	" " AS-032415-SD-06
992	S	" " AS-032415-SD-07
993	NW	" " AS-032415-SD-08
994	SW	" " AS-032415-SW-01

CFA

D. Wilson

3/24/15

D. Wilson

- 1135 Collect AS-032415-SD-03 just down gradient of stormwater outfall and up gradient Θ gradient sampling location
- 1145 Collect AS-032415-SD-04 Approx in the center of the Am Seal cont prop (from E. to W).
- 1200 Collect AS-032415-SD-05 Approx 10 ft downgradient of Western drain pipe. Free product observed at drain pipe (photo 986)
- 1210 Collect AS-032415-SD-06 at E. edge of Am Seal cont property (w/in lower drainage pathway)
- 1220 Collect AS-032415-SD-07 at point right before drainage pathway flows into culvert that flows under I-20.
- 1240 Collect AS-032415-SD-08 b/t DL and 07 (approx center of granite countertop business).
- 1350 Collect AS-032415-SD-06 from upper drainage ditch (near SD-04) and across from 2nd bay door ^{from east} to the west.
- 1405 Collect a sample AS-032415-SD-07 from lower embankment on I-20 side of DOT property

CFA

6 3/24/15

(C3) See 1511 below

D. Wilson

1411 Collect AS-032415-SS-08 (Background location) from south side (front) of Am. Seal cont. property.

1430 Collect AS-032415-SW-01, surface water sample from outfall of stormwater drain b/t Am Seal cont and SealMaster.

1445 Collect Equipment blank, AS-032415-EQ-01.

1505 Collect duplicate sample AS-032415-SS-06-2p

1511 Need MS/MSD sample so background location is resampled (disagreed original sample collected at 1417). Collect from same location.

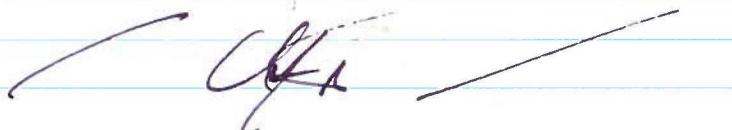
1517 Prepare to screen collected samples w/ XRF. All above samples will be sent to GCAL for SVOC and RCRA metal analysis.

- Cal check passed

NIST 27109 Reading #3 —

2711 Med Reading #4 —

2709 Reading #5 —



3/24/15

D. Wilson

Sample ID	Reading #	Pb	As	Shot
AS-032415-SS-01	6	53 ± 6	< 13	1
" "	7	41 ± 3	< 5.5	2
SS-02	8	32 ± 3	< 5.9	1
" "	10	32 ± 3	< 7.0	2
SS-03	11	45 ± 3	< 5.5	1
" "	12	66 ± 3	9 ± 2	2
SS-04	13	82 ± 4	< 9.0	1
" "	15	72 ± 4	< 8.0	2
SS-05	16	52 ± 3	< 5.4	1
" "	17	65 ± 3	< 7.0	2
SD-01	18	128 ± 4	< 9.0	1
" "	19	110 ± 4	< 8.0	2
SD-02	20	47 ± 3	< 5.8	1
" "	21	41 ± 3	< 5.7	2
SD-03	22	113 ± 4	< 8.0	1
" "	23	131 ± 3	< 9.0	2
SD-04	24	83 ± 4	< 8.0	1
" "	25	100 ± 4	< 9.0	2
SD-05	28	93 ± 3	< 7.0	1
" "	29	59 ± 3	< 5.5	2
SD-06	30	130 ± 4	< 9.0	1
" "	31	81 ± 3	< 7.0	2
SD-07	34	48 ± 3	< 7.0	1
	35	40 ± 3	< 5.8	2



8

3/24/15

D. Wilson

<u>Sample ID</u>	<u>Reading #</u>	<u>?b</u>	<u>AS</u>	<u>Shot</u>
AS-032415-SD-08	36	46 ± 2	< 5.2	1
:	" 37	62 ± 4	< 10.0	2
SS-DL	38	69 ± 3	7 ± 2	1
" "	39	79 ± 4	< 8.0	2
SS-07	40	66 ± 4	< 9.0	1
" "	41	72 ± 4	< 7.0	2
SS-08	42	89 ± 4	< 9.0	1
" "	43	82 ± 4	< 8.0	2
SS-06-Dup	44	73 ± 3	< 7.0	1
" "	45	65 ± 3	< 6.0	2

1634 Screen standards again —

2711 Med	Reading 46	—
2709	Reading 47	—
NIST 27109	Reading 48	—
1700 Offsite		—

9

OK

No. 390N Journal Numbered - Poly



6 32281 39031 2

ISBN 978-1-932149-38-8

ATTACHMENT 1
ANALYTICAL DATA PACKAGES
(78 Sheets)

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 05/22/2015

GCAL Report 215032715



Deliver To Tetra Tech
1955 Evergreen Blvd
Bldg 200 suite 300
Duluth, GA 30096
678-325-9276

Attn Leslie Shaver

Project American Stealcoat



Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
MDL	Method Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
DL	Dilution
N	Metals Matrix Spike or Matrix Spike Duplicate Recovery is outside control limits
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*	Indicates a non-compliant or not applicable QC recovery or RPD

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Authorized Signature
GCAL Report 215032715

Case Narrative

Client: Tetra Tech **Report:** 215032715

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This report was revised 05/22/15. The data was revised to report to the MDL with J values.

SEMI-VOLATILES MASS SPECTROMETRY

In the EPA 8270C analysis, samples 21503271501 (AS-032415-SS-01), 21503271503 (AS-032415-SS-03), 21503271504 (AS-032415-SS-04), 21503271505 (AS-032415-SS-05), 21503271507 (AS-032415-SD-02), 21503271508 (AS-032415-SD-03) 21503271509 (AS-032415-SD-04), 21503271510 (AS-032415-SD-05), 21503271511 (AS-032415-SD-06), 21503271512 (AS-032415-SD-07), 21503271513 (AS-032415-SD-08) and 21503271514 (AS-032415-SS-06) had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument or to eliminate interference from non-target background. This is reflected in elevated detection limits. The recoveries for the surrogates are reported as diluted out for those analyses performed at a 10 or higher dilution.

In the EPA 8270C analysis for prep batch 555107, the MS/MSD exhibited recovery failures. The LCS/LCSD exhibited recoveries above the established control limits for Atrazine (Aatrex). However, Atrazine (Aatrex) was not detected in the associated samples, therefore the data is reportable.

In the EPA 8270C analysis for prep batch 555105, Atrazine (Aatrex) and Benzaldehyde exhibited recoveries outside of the established control limits for the LCS and/or LCSD. However, Atrazine (Aatrex) and Benzaldehyde were not detected in the associated samples; therefore, the data is reportable. The LCS/LCSD RPDs are above the control limit for Bis(2-Chloroethyl)ether, Bis(2-Chloroisopropyl)ether, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Naphthalene, 2-Nitrophenol, Acetophenone, 2-Chlorophenol.

METALS

In the EPA 6020A analysis, a chemical or physical interference necessitated a dilution for all the solid samples. This is reflected in the elevated reporting limits.

In the EPA 6020A analysis for prep batch 555081, the MS and/or MSD recovery is outside the control limits for Arsenic. The LCS recovery is within control limits. This indicates the analysis is in control and the sample is affected by matrix interference or the element is non-homogeneous in the sample. A post-digestion spike was performed. The MS/MSD recoveries and RPDs are not applicable for Barium, Chromium and Lead because the sample concentration is greater than four times the spike concentration. The MS/MSD recoveries and RPD are not applicable Selenium the spike was diluted out of the samples. All LCS recoveries are acceptable.

MISCELLANEOUS

Sample 21503271522 (AS-032415-FB-01) was received but was not listed on the chain of custody. The client was contacted and authorized proceeding with analysis. This sample has been added to the COC by the Project Manager.

N-nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine. The laboratory uses N-nitrosodiphenylamine as the calibration and QC standard.

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21503271501	AS-032415-SS-01	Solid	03/24/2015 09:55	03/27/2015 10:30
21503271502	AS-032415-SS-02	Solid	03/24/2015 10:18	03/27/2015 10:30
21503271503	AS-032415-SS-03	Solid	03/24/2015 10:27	03/27/2015 10:30
21503271504	AS-032415-SS-04	Solid	03/24/2015 10:42	03/27/2015 10:30
21503271505	AS-032415-SS-05	Solid	03/24/2015 10:50	03/27/2015 10:30
21503271506	AS-032415-SD-01	Solid	03/24/2015 11:10	03/27/2015 10:30
21503271507	AS-032415-SD-02	Solid	03/24/2015 11:30	03/27/2015 10:30
21503271508	AS-032415-SD-03	Solid	03/24/2015 11:35	03/27/2015 10:30
21503271509	AS-032415-SD-04	Solid	03/24/2015 11:45	03/27/2015 10:30
21503271510	AS-032415-SD-05	Solid	03/24/2015 12:00	03/27/2015 10:30
21503271511	AS-032415-SD-06	Solid	03/24/2015 12:10	03/27/2015 10:30
21503271512	AS-032415-SD-07	Solid	03/24/2015 12:20	03/27/2015 10:30
21503271513	AS-032415-SD-08	Solid	03/24/2015 12:40	03/27/2015 10:30
21503271514	AS-032415-SS-06	Solid	03/24/2015 13:52	03/27/2015 10:30
21503271515	AS-032415-SS-07	Solid	03/24/2015 14:05	03/27/2015 10:30
21503271516	AS-032415-SS-08	Solid	03/24/2015 15:11	03/27/2015 10:30
21503271517	AS-032415-SS-08 MS	Solid	03/24/2015 15:11	03/27/2015 10:30
21503271518	AS-032415-SS-08 MSD	Solid	03/24/2015 15:11	03/27/2015 10:30
21503271519	AS-032415-SW-01	Water	03/24/2015 14:30	03/27/2015 10:30
21503271520	AS-032415-EQ-01	Water	03/24/2015 14:45	03/27/2015 10:30
21503271521	AS-032415-SS-06-DUP	Solid	03/24/2015 15:05	03/27/2015 10:30
21503271522	AS-032415-FB-01	Water	03/24/2015 16:40	03/27/2015 10:30

Summary of Compounds Detected

AS-032415-SS-01	Collect Date	03/24/2015 09:55	GCAL ID	21503271501
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
91-57-6	2-Methylnaphthalene	113J	47.1	3270	ug/Kg
83-32-9	Acenaphthene	2030J	100.0	3270	ug/Kg
120-12-7	Anthracene	6460	67.2	3270	ug/Kg
56-55-3	Benzo(a)anthracene	12200	61.0	3270	ug/Kg
50-32-8	Benzo(a)pyrene	12400	41.0	3270	ug/Kg
205-99-2	Benzo(b)fluoranthene	14400	64.6	3270	ug/Kg
191-24-2	Benzo(g,h,i)perylene	8530	49.4	3270	ug/Kg
207-08-9	Benzo(k)fluoranthene	5890	50.5	3270	ug/Kg
86-74-8	Carbazole	1550J	63.2	3270	ug/Kg
218-01-9	Chrysene	12500	70.8	3270	ug/Kg
53-70-3	Dibenz(a,h)anthracene	2010J	46.9	3270	ug/Kg
132-64-9	Dibenzofuran	954J	62.2	3270	ug/Kg
206-44-0	Fluoranthene	33700	53.2	3270	ug/Kg
86-73-7	Fluorene	2510J	58.9	3270	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	8960	78.7	3270	ug/Kg
85-01-8	Phenanthrene	18000	75.0	3270	ug/Kg
129-00-0	Pyrene	23900	45.8	3270	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	634	99.2	397	ug/Kg
7440-39-3	Barium	52300	99.2	397	ug/Kg
7440-43-9	Cadmium	114J	99.2	397	ug/Kg
7440-47-3	Chromium	10100	99.2	397	ug/Kg
7439-92-1	Lead	26700	99.2	397	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.028	0.0044	0.011	mg/kg

AS-032415-SS-02	Collect Date	03/24/2015 10:18	GCAL ID	21503271502
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
83-32-9	Acenaphthene	20.2J	9.97	326	ug/Kg
208-96-8	Acenaphthylene	24.4J	6.66	326	ug/Kg
120-12-7	Anthracene	121J	6.70	326	ug/Kg
56-55-3	Benzo(a)anthracene	472	6.08	326	ug/Kg
50-32-8	Benzo(a)pyrene	686	4.09	326	ug/Kg

Summary of Compounds Detected

AS-032415-SS-02	Collect Date	03/24/2015 10:18	GCAL ID	21503271502
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
205-99-2	Benzo(b)fluoranthene	882	6.43	326	ug/Kg
191-24-2	Benzo(g,h,i)perylene	691	4.92	326	ug/Kg
207-08-9	Benzo(k)fluoranthene	324J	5.03	326	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	17.9J	4.62	326	ug/Kg
86-74-8	Carbazole	55.8J	6.30	326	ug/Kg
218-01-9	Chrysene	506	7.06	326	ug/Kg
53-70-3	Dibenz(a,h)anthracene	161J	4.68	326	ug/Kg
132-64-9	Dibenzofuran	8.26J	6.20	326	ug/Kg
84-74-2	Di-n-butyl phthalate	11.9J	6.30	326	ug/Kg
206-44-0	Fluoranthene	808	5.30	326	ug/Kg
86-73-7	Fluorene	25.3J	5.87	326	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	696	7.85	326	ug/Kg
85-01-8	Phenanthrene	292J	7.48	326	ug/Kg
129-00-0	Pyrene	720	4.57	326	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	367J	100	400	ug/Kg
7440-39-3	Barium	48200	100	400	ug/Kg
7440-47-3	Chromium	13600	100	400	ug/Kg
7439-92-1	Lead	11100	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.0098J	0.0047	0.012	mg/kg

AS-032415-SS-03	Collect Date	03/24/2015 10:27	GCAL ID	21503271503
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
91-57-6	2-Methylnaphthalene	1720J	471	32700	ug/Kg
83-32-9	Acenaphthene	15500J	1000	32700	ug/Kg
208-96-8	Acenaphthylene	14200J	668	32700	ug/Kg
120-12-7	Anthracene	99300	672	32700	ug/Kg
56-55-3	Benzo(a)anthracene	104000	610	32700	ug/Kg
50-32-8	Benzo(a)pyrene	60100	410	32700	ug/Kg
205-99-2	Benzo(b)fluoranthene	159000	646	32700	ug/Kg
191-24-2	Benzo(g,h,i)perylene	46700	494	32700	ug/Kg
207-08-9	Benzo(k)fluoranthene	67700	505	32700	ug/Kg
86-74-8	Carbazole	12400J	632	32700	ug/Kg
218-01-9	Chrysene	134000	708	32700	ug/Kg
53-70-3	Dibenz(a,h)anthracene	19500J	469	32700	ug/Kg

Summary of Compounds Detected

AS-032415-SS-03	Collect Date	03/24/2015 10:27	GCAL ID	21503271503
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
132-64-9	Dibenzofuran	9080J	622	32700	ug/Kg
206-44-0	Fluoranthene	221000	532	32700	ug/Kg
86-73-7	Fluorene	19700J	589	32700	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	63100	787	32700	ug/Kg
87-86-5	Pentachlorophenol	3420J	732	163000	ug/Kg
85-01-8	Phenanthrene	87500	750	32700	ug/Kg
129-00-0	Pyrene	153000	458	32700	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	933	100	400	ug/Kg
7440-39-3	Barium	87400	100	400	ug/Kg
7440-43-9	Cadmium	998	100	400	ug/Kg
7440-47-3	Chromium	6400	100	400	ug/Kg
7439-92-1	Lead	32100	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.18	0.0045	0.011	mg/kg

AS-032415-SS-04	Collect Date	03/24/2015 10:42	GCAL ID	21503271504
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
91-57-6	2-Methylnaphthalene	11900J	939	65100	ug/Kg
83-32-9	Acenaphthene	59900J	1990	65100	ug/Kg
120-12-7	Anthracene	142000	1340	65100	ug/Kg
56-55-3	Benzo(a)anthracene	138000	1220	65100	ug/Kg
50-32-8	Benzo(a)pyrene	122000	817	65100	ug/Kg
205-99-2	Benzo(b)fluoranthene	136000	1290	65100	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80100	985	65100	ug/Kg
207-08-9	Benzo(k)fluoranthene	56200J	1010	65100	ug/Kg
86-74-8	Carbazole	43900J	1260	65100	ug/Kg
218-01-9	Chrysene	126000	1410	65100	ug/Kg
53-70-3	Dibenz(a,h)anthracene	19400J	936	65100	ug/Kg
132-64-9	Dibenzofuran	39000J	1240	65100	ug/Kg
206-44-0	Fluoranthene	472000	1060	65100	ug/Kg
86-73-7	Fluorene	69200	1170	65100	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	84800	1570	65100	ug/Kg
91-20-3	Naphthalene	28900J	2030	65100	ug/Kg
85-01-8	Phenanthrene	435000	1500	65100	ug/Kg

Summary of Compounds Detected

AS-032415-SS-04	Collect Date	03/24/2015 10:42	GCAL ID	21503271504
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
129-00-0	Pyrene	284000	914	65100	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1290	100	400	ug/Kg
7440-39-3	Barium	51900	100	400	ug/Kg
7440-43-9	Cadmium	212J	100	400	ug/Kg
7440-47-3	Chromium	12200	100	400	ug/Kg
7439-92-1	Lead	42600	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.017	0.0041	0.010	mg/kg

AS-032415-SS-05	Collect Date	03/24/2015 10:50	GCAL ID	21503271505
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
120-12-7	Anthracene	76.4J	67.9	3300	ug/Kg
56-55-3	Benzo(a)anthracene	170J	61.6	3300	ug/Kg
50-32-8	Benzo(a)pyrene	241J	41.4	3300	ug/Kg
205-99-2	Benzo(b)fluoranthene	395J	65.2	3300	ug/Kg
191-24-2	Benzo(g,h,i)perylene	281J	49.9	3300	ug/Kg
207-08-9	Benzo(k)fluoranthene	150J	51.0	3300	ug/Kg
218-01-9	Chrysene	240J	71.5	3300	ug/Kg
53-70-3	Dibenz(a,h)anthracene	86.5J	47.4	3300	ug/Kg
206-44-0	Fluoranthene	354J	53.7	3300	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	312J	79.5	3300	ug/Kg
85-01-8	Phenanthrene	83.0J	75.8	3300	ug/Kg
129-00-0	Pyrene	262J	46.3	3300	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	902	97.7	391	ug/Kg
7440-39-3	Barium	69300	97.7	391	ug/Kg
7440-43-9	Cadmium	145J	97.7	391	ug/Kg
7440-47-3	Chromium	10100	97.7	391	ug/Kg

Summary of Compounds Detected

AS-032415-SS-05	Collect Date	03/24/2015 10:50	GCAL ID	21503271505	
	Receive Date	03/27/2015 10:30	Matrix	Solid	

EPA 6020A (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
7439-92-1	Lead	47100	97.7	391	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.036	0.0044	0.011	mg/kg

AS-032415-SD-01	Collect Date	03/24/2015 11:10	GCAL ID	21503271506	
	Receive Date	03/27/2015 10:30	Matrix	Solid	

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
120-12-7	Anthracene	12.2J	6.77	329	ug/Kg
100-52-7	Benzaldehyde	50.0J	31.9	1640	ug/Kg
56-55-3	Benzo(a)anthracene	84.8J	6.14	329	ug/Kg
50-32-8	Benzo(a)pyrene	121J	4.13	329	ug/Kg
205-99-2	Benzo(b)fluoranthene	182J	6.50	329	ug/Kg
191-24-2	Benzo(g,h,i)perylene	159J	4.97	329	ug/Kg
207-08-9	Benzo(k)fluoranthene	59.7J	5.08	329	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.1J	4.66	329	ug/Kg
86-74-8	Carbazole	8.64J	6.36	329	ug/Kg
218-01-9	Chrysene	120J	7.13	329	ug/Kg
53-70-3	Dibenz(a,h)anthracene	32.2J	4.72	329	ug/Kg
206-44-0	Fluoranthene	178J	5.35	329	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	152J	7.92	329	ug/Kg
85-01-8	Phenanthrene	46.8J	7.55	329	ug/Kg
129-00-0	Pyrene	154J	4.61	329	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	752	98.4	394	ug/Kg
7440-39-3	Barium	39700	98.4	394	ug/Kg
7440-47-3	Chromium	3660	98.4	394	ug/Kg
7439-92-1	Lead	56800	98.4	394	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.060	0.0046	0.012	mg/kg

Summary of Compounds Detected

AS-032415-SD-02	Collect Date	03/24/2015 11:30	GCAL ID	21503271507
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
91-57-6	2-Methylnaphthalene	175J	119	8250	ug/Kg
83-32-9	Acenaphthene	2190J	253	8250	ug/Kg
120-12-7	Anthracene	7760J	170	8250	ug/Kg
56-55-3	Benzo(a)anthracene	34400	154	8250	ug/Kg
50-32-8	Benzo(a)pyrene	49000	104	8250	ug/Kg
205-99-2	Benzo(b)fluoranthene	56200	163	8250	ug/Kg
191-24-2	Benzo(g,h,i)perylene	42600	125	8250	ug/Kg
207-08-9	Benzo(k)fluoranthene	20800	128	8250	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	1610J	117	8250	ug/Kg
86-74-8	Carbazole	3240J	160	8250	ug/Kg
218-01-9	Chrysene	37600	179	8250	ug/Kg
53-70-3	Dibenz(a,h)anthracene	11100	119	8250	ug/Kg
206-44-0	Fluoranthene	82600	134	8250	ug/Kg
86-73-7	Fluorene	2520J	149	8250	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45500	199	8250	ug/Kg
91-20-3	Naphthalene	385J	258	8250	ug/Kg
85-01-8	Phenanthrene	27500	190	8250	ug/Kg
129-00-0	Pyrene	47000	116	8250	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	696	100	400	ug/Kg
7440-39-3	Barium	53800	100	400	ug/Kg
7440-43-9	Cadmium	186J	100	400	ug/Kg
7440-47-3	Chromium	7650	100	400	ug/Kg
7439-92-1	Lead	41400	100	400	ug/Kg
7440-22-4	Silver	104J	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.010J	0.0044	0.011	mg/kg

AS-032415-SD-03	Collect Date	03/24/2015 11:35	GCAL ID	21503271508
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
83-32-9	Acenaphthene	565J	200	6530	ug/Kg
120-12-7	Anthracene	1890J	134	6530	ug/Kg
56-55-3	Benzo(a)anthracene	9200	122	6530	ug/Kg
50-32-8	Benzo(a)pyrene	13600	82.0	6530	ug/Kg
205-99-2	Benzo(b)fluoranthene	15300	129	6530	ug/Kg
191-24-2	Benzo(g,h,i)perylene	12700	98.8	6530	ug/Kg

Summary of Compounds Detected

AS-032415-SD-03	Collect Date	03/24/2015 11:35	GCAL ID	21503271508
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
207-08-9	Benzo(k)fluoranthene	5350J	101	6530	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	423J	92.7	6530	ug/Kg
86-74-8	Carbazole	787J	126	6530	ug/Kg
218-01-9	Chrysene	9550	142	6530	ug/Kg
53-70-3	Dibenz(a,h)anthracene	2950J	93.9	6530	ug/Kg
132-64-9	Dibenzofuran	219J	124	6530	ug/Kg
206-44-0	Fluoranthene	20400	106	6530	ug/Kg
86-73-7	Fluorene	658J	118	6530	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	13100	157	6530	ug/Kg
85-01-8	Phenanthrene	6880	150	6530	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	984	96.9	388	ug/Kg
7440-39-3	Barium	47900	96.9	388	ug/Kg
7440-43-9	Cadmium	199J	96.9	388	ug/Kg
7440-47-3	Chromium	8640	96.9	388	ug/Kg
7439-92-1	Lead	46000	96.9	388	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.021	0.0041	0.010	mg/kg

AS-032415-SD-04	Collect Date	03/24/2015 11:45	GCAL ID	21503271509
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
83-32-9	Acenaphthene	764J	101	3300	ug/Kg
208-96-8	Acenaphthylene	422J	67.5	3300	ug/Kg
120-12-7	Anthracene	3030J	67.9	3300	ug/Kg
56-55-3	Benzo(a)anthracene	29600	61.6	3300	ug/Kg
50-32-8	Benzo(a)pyrene	39700	41.4	3300	ug/Kg
205-99-2	Benzo(b)fluoranthene	51100	65.2	3300	ug/Kg
191-24-2	Benzo(g,h,i)perylene	27400	49.9	3300	ug/Kg
207-08-9	Benzo(k)fluoranthene	16100	51.0	3300	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	443J	46.8	3300	ug/Kg
86-74-8	Carbazole	1280J	63.8	3300	ug/Kg
218-01-9	Chrysene	31500	71.5	3300	ug/Kg
53-70-3	Dibenz(a,h)anthracene	10300	47.4	3300	ug/Kg
132-64-9	Dibenzofuran	227J	62.8	3300	ug/Kg
206-44-0	Fluoranthene	62700	53.7	3300	ug/Kg
86-73-7	Fluorene	731J	59.5	3300	ug/Kg

Summary of Compounds Detected

AS-032415-SD-04	Collect Date	03/24/2015 11:45	GCAL ID	21503271509
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
193-39-5	Indeno(1,2,3-cd)pyrene	31000	79.5	3300	ug/Kg
85-01-8	Phenanthrene	11700	75.8	3300	ug/Kg
129-00-0	Pyrene	39400	46.3	3300	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1090	100	400	ug/Kg
7440-39-3	Barium	60200	100	400	ug/Kg
7440-43-9	Cadmium	376J	100	400	ug/Kg
7440-47-3	Chromium	12000	100	400	ug/Kg
7439-92-1	Lead	48400	100	400	ug/Kg
7440-22-4	Silver	112J	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.029	0.0041	0.010	mg/kg

AS-032415-SD-05	Collect Date	03/24/2015 12:00	GCAL ID	21503271510
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
83-32-9	Acenaphthene	495J	100	3280	ug/Kg
208-96-8	Acenaphthylene	267J	67.1	3280	ug/Kg
120-12-7	Anthracene	1740J	67.5	3280	ug/Kg
56-55-3	Benzo(a)anthracene	19400	61.2	3280	ug/Kg
50-32-8	Benzo(a)pyrene	27600	41.1	3280	ug/Kg
205-99-2	Benzo(b)fluoranthene	34000	64.8	3280	ug/Kg
191-24-2	Benzo(g,h,i)perylene	16800	49.6	3280	ug/Kg
207-08-9	Benzo(k)fluoranthene	11800	50.7	3280	ug/Kg
85-68-7	Butyl benzyl phthalate	490J	65.5	3280	ug/Kg
86-74-8	Carbazole	594J	63.4	3280	ug/Kg
218-01-9	Chrysene	19600	71.0	3280	ug/Kg
53-70-3	Dibenz(a,h)anthracene	4970	47.1	3280	ug/Kg
206-44-0	Fluoranthene	40500	53.3	3280	ug/Kg
86-73-7	Fluorene	445J	59.1	3280	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	19000	79.0	3280	ug/Kg
85-01-8	Phenanthrene	5880	75.3	3280	ug/Kg
129-00-0	Pyrene	24700	46.0	3280	ug/Kg

Summary of Compounds Detected

AS-032415-SD-05	Collect Date	03/24/2015 12:00	GCAL ID	21503271510
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1120	99.2	397	ug/Kg
7440-39-3	Barium	72900	99.2	397	ug/Kg
7440-43-9	Cadmium	476	99.2	397	ug/Kg
7440-47-3	Chromium	11000	99.2	397	ug/Kg
7439-92-1	Lead	49600	99.2	397	ug/Kg
7440-22-4	Silver	107J	99.2	397	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.045	0.0044	0.011	mg/kg

AS-032415-SD-06	Collect Date	03/24/2015 12:10	GCAL ID	21503271511
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
83-32-9	Acenaphthene	118J	99.3	3250	ug/Kg
208-96-8	Acenaphthylene	115J	66.4	3250	ug/Kg
120-12-7	Anthracene	411J	66.8	3250	ug/Kg
56-55-3	Benzo(a)anthracene	5420	60.6	3250	ug/Kg
50-32-8	Benzo(a)pyrene	8000	40.7	3250	ug/Kg
205-99-2	Benzo(b)fluoranthene	10000	64.1	3250	ug/Kg
191-24-2	Benzo(g,h,i)perylene	5380	49.1	3250	ug/Kg
207-08-9	Benzo(k)fluoranthene	3730	50.2	3250	ug/Kg
86-74-8	Carbazole	209J	62.8	3250	ug/Kg
218-01-9	Chrysene	5860	70.3	3250	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1440J	46.6	3250	ug/Kg
206-44-0	Fluoranthene	12400	52.8	3250	ug/Kg
86-73-7	Fluorene	110J	58.5	3250	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	6160	78.2	3250	ug/Kg
85-01-8	Phenanthrene	1620J	74.6	3250	ug/Kg
129-00-0	Pyrene	7150	45.5	3250	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	732	100	400	ug/Kg
7440-39-3	Barium	30200	100	400	ug/Kg
7440-43-9	Cadmium	127J	100	400	ug/Kg
7440-47-3	Chromium	8160	100	400	ug/Kg
7439-92-1	Lead	21800	100	400	ug/Kg
7440-22-4	Silver	136J	100	400	ug/Kg

Summary of Compounds Detected

AS-032415-SD-06	Collect Date	03/24/2015 12:10	GCAL ID	21503271511
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.029	0.0044	0.011	mg/kg

AS-032415-SD-07	Collect Date	03/24/2015 12:20	GCAL ID	21503271512
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
120-12-7	Anthracene	131J	66.8	3250	ug/Kg
56-55-3	Benzo(a)anthracene	1290J	60.6	3250	ug/Kg
50-32-8	Benzo(a)pyrene	1710J	40.7	3250	ug/Kg
205-99-2	Benzo(b)fluoranthene	2610J	64.1	3250	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300J	49.1	3250	ug/Kg
207-08-9	Benzo(k)fluoranthene	806J	50.2	3250	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	740J	46.0	3250	ug/Kg
86-74-8	Carbazole	153J	62.8	3250	ug/Kg
218-01-9	Chrysene	1690J	70.3	3250	ug/Kg
53-70-3	Dibenz(a,h)anthracene	353J	46.6	3250	ug/Kg
206-44-0	Fluoranthene	3560	52.8	3250	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1460J	78.2	3250	ug/Kg
85-01-8	Phenanthrene	853J	74.6	3250	ug/Kg
129-00-0	Pyrene	2070J	45.5	3250	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	809	100	400	ug/Kg
7440-39-3	Barium	59400	100	400	ug/Kg
7440-43-9	Cadmium	213J	100	400	ug/Kg
7440-47-3	Chromium	13400	100	400	ug/Kg
7439-92-1	Lead	25200	100	400	ug/Kg
7440-22-4	Silver	138J	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.012	0.0043	0.011	mg/kg

Summary of Compounds Detected

AS-032415-SD-08	Collect Date	03/24/2015 12:40	GCAL ID	21503271513
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
120-12-7	Anthracene	244J	67.2	3270	ug/Kg
56-55-3	Benzo(a)anthracene	4710	61.0	3270	ug/Kg
50-32-8	Benzo(a)pyrene	6440	41.0	3270	ug/Kg
205-99-2	Benzo(b)fluoranthene	8050	64.6	3270	ug/Kg
191-24-2	Benzo(g,h,i)perylene	6210	49.4	3270	ug/Kg
207-08-9	Benzo(k)fluoranthene	3250J	50.5	3270	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	457J	46.3	3270	ug/Kg
86-74-8	Carbazole	116J	63.2	3270	ug/Kg
218-01-9	Chrysene	4680	70.8	3270	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1360J	46.9	3270	ug/Kg
84-74-2	Di-n-butyl phthalate	115J	63.2	3270	ug/Kg
206-44-0	Fluoranthene	8920	53.2	3270	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	6410	78.7	3270	ug/Kg
85-01-8	Phenanthrene	1350J	75.0	3270	ug/Kg
129-00-0	Pyrene	7930	45.8	3270	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	961	100	400	ug/Kg
7440-39-3	Barium	66900	100	400	ug/Kg
7440-43-9	Cadmium	374J	100	400	ug/Kg
7440-47-3	Chromium	9940	100	400	ug/Kg
7439-92-1	Lead	34300	100	400	ug/Kg
7440-22-4	Silver	113J	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.029	0.0047	0.012	mg/kg

AS-032415-SS-06	Collect Date	03/24/2015 13:52	GCAL ID	21503271514
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
91-57-6	2-Methylnaphthalene	1350J	46.8	3250	ug/Kg
83-32-9	Acenaphthene	5700	99.3	3250	ug/Kg
120-12-7	Anthracene	15500	66.8	3250	ug/Kg
56-55-3	Benzo(a)anthracene	22500	60.6	3250	ug/Kg
50-32-8	Benzo(a)pyrene	20400	40.7	3250	ug/Kg
205-99-2	Benzo(b)fluoranthene	24400	64.1	3250	ug/Kg
191-24-2	Benzo(g,h,i)perylene	9650	49.1	3250	ug/Kg
207-08-9	Benzo(k)fluoranthene	8970	50.2	3250	ug/Kg
86-74-8	Carbazole	5200	62.8	3250	ug/Kg

Summary of Compounds Detected

AS-032415-SS-06	Collect Date	03/24/2015 13:52	GCAL ID	21503271514
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
218-01-9	Chrysene	20000	70.3	3250	ug/Kg
53-70-3	Dibenz(a,h)anthracene	3080J	46.6	3250	ug/Kg
132-64-9	Dibenzofuran	4000	61.8	3250	ug/Kg
206-44-0	Fluoranthene	64300	52.8	3250	ug/Kg
86-73-7	Fluorene	7480	58.5	3250	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	11900	78.2	3250	ug/Kg
91-20-3	Naphthalene	2900J	101	3250	ug/Kg
85-01-8	Phenanthrene	44400	74.6	3250	ug/Kg
129-00-0	Pyrene	34600	45.5	3250	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	990	100	400	ug/Kg
7440-39-3	Barium	64500	100	400	ug/Kg
7440-43-9	Cadmium	144J	100	400	ug/Kg
7440-47-3	Chromium	3760	100	400	ug/Kg
7439-92-1	Lead	43500	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.023	0.0042	0.011	mg/kg

AS-032415-SS-07	Collect Date	03/24/2015 14:05	GCAL ID	21503271515
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
56-55-3	Benzo(a)anthracene	42.5J	6.16	330	ug/Kg
50-32-8	Benzo(a)pyrene	66.8J	4.14	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	93.3J	6.52	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	85.5J	4.99	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	29.2J	5.10	330	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	22.3J	4.68	330	ug/Kg
218-01-9	Chrysene	63.0J	7.15	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	17.8J	4.74	330	ug/Kg
84-74-2	Di-n-butyl phthalate	9.11J	6.38	330	ug/Kg
206-44-0	Fluoranthene	84.4J	5.37	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	81.5J	7.95	330	ug/Kg
85-01-8	Phenanthrene	20.6J	7.58	330	ug/Kg
129-00-0	Pyrene	79.9J	4.63	330	ug/Kg

Summary of Compounds Detected

AS-032415-SS-07	Collect Date	03/24/2015 14:05	GCAL ID	21503271515
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	816	97.7	391	ug/Kg
7440-39-3	Barium	81100	97.7	391	ug/Kg
7440-43-9	Cadmium	127J	97.7	391	ug/Kg
7440-47-3	Chromium	11400	97.7	391	ug/Kg
7439-92-1	Lead	38700	97.7	391	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.027	0.0045	0.011	mg/kg

AS-032415-SS-08	Collect Date	03/24/2015 15:11	GCAL ID	21503271516
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
120-12-7	Anthracene	10.9J	6.79	330	ug/Kg
56-55-3	Benzo(a)anthracene	108J	6.16	330	ug/Kg
50-32-8	Benzo(a)pyrene	144J	4.14	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	221J	6.52	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	158J	4.99	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	63.1J	5.10	330	ug/Kg
86-74-8	Carbazole	6.97J	6.38	330	ug/Kg
218-01-9	Chrysene	148J	7.15	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	24.7J	4.74	330	ug/Kg
84-74-2	Di-n-butyl phthalate	9.88J	6.38	330	ug/Kg
206-44-0	Fluoranthene	220J	5.37	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	152J	7.95	330	ug/Kg
85-01-8	Phenanthrene	54.6J	7.58	330	ug/Kg
129-00-0	Pyrene	202J	4.63	330	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	617	100	400	ug/Kg
7440-39-3	Barium	58900	100	400	ug/Kg
7440-43-9	Cadmium	150J	100	400	ug/Kg
7440-47-3	Chromium	20500	100	400	ug/Kg
7439-92-1	Lead	64200	100	400	ug/Kg

Summary of Compounds Detected

AS-032415-SS-08	Collect Date	03/24/2015 15:11	GCAL ID	21503271516
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.018	0.0040	0.010	mg/kg

AS-032415-SS-08 MS	Collect Date	03/24/2015 15:11	GCAL ID	21503271517
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	1280	8.12	329	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1280	10.3	329	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1320	10.4	329	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1360	11.6	329	ug/Kg
120-83-2	2,4-Dichlorophenol	1190	9.45	329	ug/Kg
105-67-9	2,4-Dimethylphenol	1060	6.50	329	ug/Kg
51-28-5	2,4-Dinitrophenol	1230	22.4	329	ug/Kg
121-14-2	2,4-Dinitrotoluene	1370	6.70	329	ug/Kg
606-20-2	2,6-Dinitrotoluene	1350	12.3	329	ug/Kg
91-58-7	2-Chloronaphthalene	1220	10.5	329	ug/Kg
95-57-8	2-Chlorophenol	1150	7.22	329	ug/Kg
91-57-6	2-Methylnaphthalene	1110	4.74	329	ug/Kg
88-74-4	2-Nitroaniline	1250J	4.18	1640	ug/Kg
88-75-5	2-Nitrophenol	1200	11.8	329	ug/Kg
99-09-2	3-Nitroaniline	783J	4.48	1640	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1310J	17.7	1640	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	1350	10.5	329	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1230	7.40	329	ug/Kg
106-47-8	4-Chloroaniline	595	6.32	329	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	1280	7.32	329	ug/Kg
100-01-6	4-Nitroaniline	987J	4.24	1640	ug/Kg
100-02-7	4-Nitrophenol	1360J	20.9	1640	ug/Kg
83-32-9	Acenaphthene	1240	10.1	329	ug/Kg
208-96-8	Acenaphthylene	1240	6.73	329	ug/Kg
98-86-2	Acetophenone	1110	9.82	329	ug/Kg
120-12-7	Anthracene	1360	6.77	329	ug/Kg
1912-24-9	Atrazine (Aatrex)	4490	6.92	658	ug/Kg
100-52-7	Benzaldehyde	1860	31.9	1640	ug/Kg
56-55-3	Benzo(a)anthracene	1410	6.14	329	ug/Kg
50-32-8	Benzo(a)pyrene	1490	4.13	329	ug/Kg
205-99-2	Benzo(b)fluoranthene	1380	6.50	329	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1820	4.97	329	ug/Kg
207-08-9	Benzo(k)fluoranthene	1370	5.08	329	ug/Kg
92-52-4	Biphenyl	1110	4.86	329	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	1210	5.74	329	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	1100	12.8	329	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	1010	7.21	329	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	1510	4.66	329	ug/Kg
85-68-7	Butyl benzyl phthalate	1450	6.57	329	ug/Kg
105-60-2	Caprolactam	1290	14.6	329	ug/Kg
86-74-8	Carbazole	1320	6.36	329	ug/Kg
218-01-9	Chrysene	1450	7.13	329	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1650	4.72	329	ug/Kg
132-64-9	Dibenzofuran	1280	6.26	329	ug/Kg

Summary of Compounds Detected

AS-032415-SS-08 MS	Collect Date	03/24/2015 15:11	GCAL ID	21503271517
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
84-66-2	Diethyl phthalate	1290	12.2	329	ug/Kg
131-11-3	Dimethyl phthalate	1310	5.12	329	ug/Kg
84-74-2	Di-n-butyl phthalate	1440	6.36	329	ug/Kg
117-84-0	Di-n-octyl phthalate	1360	4.36	329	ug/Kg
206-44-0	Fluoranthene	1520	5.35	329	ug/Kg
86-73-7	Fluorene	1300	5.93	329	ug/Kg
118-74-1	Hexachlorobenzene	1380	12.8	329	ug/Kg
87-68-3	Hexachlorobutadiene	948	8.71	329	ug/Kg
77-47-4	Hexachlorocyclopentadiene	824	69.8	329	ug/Kg
67-72-1	Hexachloroethane	680	15.6	329	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1680	7.92	329	ug/Kg
78-59-1	Isophorone	1260	5.85	329	ug/Kg
1319-77-3MP	m,p-Cresol	1130	12.4	329	ug/Kg
91-20-3	Naphthalene	1080	10.3	329	ug/Kg
98-95-3	Nitrobenzene	1210	17.1	329	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	1180	14.4	329	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1280	6.96	329	ug/Kg
95-48-7	o-Cresol	1170	10.2	329	ug/Kg
87-86-5	Pentachlorophenol	1590J	7.37	1640	ug/Kg
85-01-8	Phenanthrene	1400	7.55	329	ug/Kg
108-95-2	Phenol	1130	9.07	329	ug/Kg
129-00-0	Pyrene	1610	4.61	329	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1380	100	400	ug/Kg
7440-39-3	Barium	64600	100	400	ug/Kg
7440-43-9	Cadmium	2070	100	400	ug/Kg
7440-47-3	Chromium	28300	100	400	ug/Kg
7439-92-1	Lead	74000	100	400	ug/Kg
7440-22-4	Silver	1750	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.26	0.0040	0.010	mg/kg

AS-032415-SS-08 MSD	Collect Date	03/24/2015 15:11	GCAL ID	21503271518
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	1200	8.15	330	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1310	10.3	330	ug/Kg

Summary of Compounds Detected

AS-032415-SS-08 MSD	Collect Date	03/24/2015 15:11	GCAL ID	21503271518
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
95-95-4	2,4,5-Trichlorophenol	1350	10.4	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1380	11.6	330	ug/Kg
120-83-2	2,4-Dichlorophenol	1130	9.48	330	ug/Kg
105-67-9	2,4-Dimethylphenol	993	6.52	330	ug/Kg
51-28-5	2,4-Dinitrophenol	1200	22.5	330	ug/Kg
121-14-2	2,4-Dinitrotoluene	1380	6.72	330	ug/Kg
606-20-2	2,6-Dinitrotoluene	1380	12.3	330	ug/Kg
91-58-7	2-Chloronaphthalene	1190	10.5	330	ug/Kg
95-57-8	2-Chlorophenol	1090	7.24	330	ug/Kg
91-57-6	2-Methylnaphthalene	1040	4.76	330	ug/Kg
88-74-4	2-Nitroaniline	1280J	4.19	1650	ug/Kg
88-75-5	2-Nitrophenol	1150	11.8	330	ug/Kg
99-09-2	3-Nitroaniline	853J	4.49	1650	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1250J	17.8	1650	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	1310	10.5	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1230	7.42	330	ug/Kg
106-47-8	4-Chloroaniline	530	6.34	330	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	1250	7.34	330	ug/Kg
100-01-6	4-Nitroaniline	1050J	4.25	1650	ug/Kg
100-02-7	4-Nitrophenol	1390J	21.0	1650	ug/Kg
83-32-9	Acenaphthene	1200	10.1	330	ug/Kg
208-96-8	Acenaphthylene	1230	6.75	330	ug/Kg
98-86-2	Acetophenone	1030	9.85	330	ug/Kg
120-12-7	Anthracene	1360	6.79	330	ug/Kg
1912-24-9	Atrazine (Aatrex)	4510	6.94	660	ug/Kg
100-52-7	Benzaldehyde	1890	32.0	1650	ug/Kg
56-55-3	Benzo(a)anthracene	1440	6.16	330	ug/Kg
50-32-8	Benzo(a)pyrene	1480	4.14	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400	6.52	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1840	4.99	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	1360	5.10	330	ug/Kg
92-52-4	Biphenyl	1040	4.88	330	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	1170	5.76	330	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	1040	12.8	330	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	984	7.23	330	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	1490	4.68	330	ug/Kg
85-68-7	Butyl benzyl phthalate	1410	6.59	330	ug/Kg
105-60-2	Caprolactam	1300	14.6	330	ug/Kg
86-74-8	Carbazole	1340	6.38	330	ug/Kg
218-01-9	Chrysene	1460	7.15	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1690	4.74	330	ug/Kg
132-64-9	Dibenzofuran	1240	6.28	330	ug/Kg
84-66-2	Diethyl phthalate	1330	12.2	330	ug/Kg
131-11-3	Dimethyl phthalate	1330	5.14	330	ug/Kg
84-74-2	Di-n-butyl phthalate	1430	6.38	330	ug/Kg
117-84-0	Di-n-octyl phthalate	1390	4.37	330	ug/Kg
206-44-0	Fluoranthene	1570	5.37	330	ug/Kg
86-73-7	Fluorene	1300	5.95	330	ug/Kg
118-74-1	Hexachlorobenzene	1340	12.8	330	ug/Kg
87-68-3	Hexachlorobutadiene	921	8.74	330	ug/Kg
77-47-4	Hexachlorocyclopentadiene	795	70.0	330	ug/Kg
67-72-1	Hexachloroethane	674	15.7	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1710	7.95	330	ug/Kg
78-59-1	Isophorone	1190	5.87	330	ug/Kg
1319-77-3MP	m,p-Cresol	1070	12.4	330	ug/Kg
91-20-3	Naphthalene	1020	10.3	330	ug/Kg

Summary of Compounds Detected

AS-032415-SS-08 MSD	Collect Date	03/24/2015 15:11	GCAL ID	21503271518
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
98-95-3	Nitrobenzene	1150	17.2	330	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	1120	14.4	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1270	6.98	330	ug/Kg
95-48-7	o-Cresol	1100	10.2	330	ug/Kg
87-86-5	Pentachlorophenol	1550J	7.39	1650	ug/Kg
85-01-8	Phenanthrene	1390	7.58	330	ug/Kg
108-95-2	Phenol	1100	9.10	330	ug/Kg
129-00-0	Pyrene	1550	4.63	330	ug/Kg

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1450	100	400	ug/Kg
7440-39-3	Barium	68600	100	400	ug/Kg
7440-43-9	Cadmium	2180	100	400	ug/Kg
7440-47-3	Chromium	28400	100	400	ug/Kg
7439-92-1	Lead	78000	100	400	ug/Kg
7440-22-4	Silver	1840	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.26	0.0040	0.010	mg/kg

AS-032415-SW-01	Collect Date	03/24/2015 14:30	GCAL ID	21503271519
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
83-32-9	Acenaphthene	1.33J	0.384	10.5	ug/L
56-55-3	Benzo(a)anthracene	11.8	0.259	10.5	ug/L
50-32-8	Benzo(a)pyrene	10.6	0.179	10.5	ug/L
205-99-2	Benzo(b)fluoranthene	16.8	0.195	10.5	ug/L
191-24-2	Benzo(g,h,i)perylene	2.76J	0.208	10.5	ug/L
207-08-9	Benzo(k)fluoranthene	6.25J	0.289	10.5	ug/L
92-52-4	Biphenyl	1.40J	0.519	10.5	ug/L
86-74-8	Carbazole	2.46J	0.278	10.5	ug/L
218-01-9	Chrysene	13.9	0.136	10.5	ug/L
53-70-3	Dibenz(a,h)anthracene	3.54J	0.225	10.5	ug/L
132-64-9	Dibenzofuran	1.08J	0.391	10.5	ug/L
206-44-0	Fluoranthene	60.8	0.247	10.5	ug/L
86-73-7	Fluorene	1.96J	0.377	10.5	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	8.71J	0.167	10.5	ug/L

Summary of Compounds Detected

AS-032415-SW-01	Collect Date	03/24/2015 14:30	GCAL ID	21503271519
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 8270C (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
85-01-8	Phenanthrene	12.6	0.199	10.5	ug/L

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	0.45J	0.25	1.00	ug/L
7440-39-3	Barium	26.9	0.25	1.00	ug/L
7440-47-3	Chromium	0.81J	0.25	1.00	ug/L
7439-92-1	Lead	1.53	0.25	1.00	ug/L

AS-032415-EQ-01	Collect Date	03/24/2015 14:45	GCAL ID	21503271520
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-47-3	Chromium	0.28J	0.25	1.00	ug/L

AS-032415-SS-06-DUP	Collect Date	03/24/2015 15:05	GCAL ID	21503271521
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

CAS#	Parameter	Result	MDL	LOQ	Units
91-57-6	2-Methylnaphthalene	10.5J	4.76	330	ug/Kg
83-32-9	Acenaphthene	68.7J	10.1	330	ug/Kg
120-12-7	Anthracene	232J	6.79	330	ug/Kg
56-55-3	Benzo(a)anthracene	736	6.16	330	ug/Kg
50-32-8	Benzo(a)pyrene	832	4.14	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	974	6.52	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	550	4.99	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	413	5.10	330	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.8J	4.68	330	ug/Kg
86-74-8	Carbazole	71.7J	6.38	330	ug/Kg
218-01-9	Chrysene	738	7.15	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	154J	4.74	330	ug/Kg
132-64-9	Dibenzofuran	34.7J	6.28	330	ug/Kg
206-44-0	Fluoranthene	1560	5.37	330	ug/Kg
86-73-7	Fluorene	76.8J	5.95	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	618	7.95	330	ug/Kg
91-20-3	Naphthalene	14.7J	10.3	330	ug/Kg
85-01-8	Phenanthrene	747	7.58	330	ug/Kg
129-00-0	Pyrene	1160	4.63	330	ug/Kg

Summary of Compounds Detected

AS-032415-SS-06-DUP	Collect Date	03/24/2015 15:05	GCAL ID	21503271521
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 6020A

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1030	100	400	ug/Kg
7440-39-3	Barium	68400	100	400	ug/Kg
7440-43-9	Cadmium	122J	100	400	ug/Kg
7440-47-3	Chromium	3440	100	400	ug/Kg
7439-92-1	Lead	39000	100	400	ug/Kg

EPA 7471B

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.025	0.0045	0.011	mg/kg

Sample Results

AS-032415-SS-01	Collect Date	03/24/2015 09:55	GCAL ID	21503271501
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/30/2015 22:56	TKH2	555308
CAS#	Parameter			Result	MDL	LOQ
95-94-3	1,2,4,5-Tetrachlorobenzene			80.7U	80.7	3270
58-90-2	2,3,4,6-Tetrachlorophenol			102U	102	3270
95-95-4	2,4,5-Trichlorophenol			103U	103	3270
88-06-2	2,4,6-Trichlorophenol			115U	115	3270
120-83-2	2,4-Dichlorophenol			93.9U	93.9	3270
105-67-9	2,4-Dimethylphenol			64.6U	64.6	3270
51-28-5	2,4-Dinitrophenol			223U	223	3270
121-14-2	2,4-Dinitrotoluene			66.5U	66.5	3270
606-20-2	2,6-Dinitrotoluene			122U	122	3270
91-58-7	2-Chloronaphthalene			104U	104	3270
95-57-8	2-Chlorophenol			71.7U	71.7	3270
91-57-6	2-Methylnaphthalene			113J	47.1	3270
88-74-4	2-Nitroaniline			41.5U	41.5	16300
88-75-5	2-Nitrophenol			117U	117	3270
91-94-1	3,3'-Dichlorobenzidine			313U	313	6530
99-09-2	3-Nitroaniline			44.5U	44.5	16300
534-52-1	4,6-Dinitro-2-methylphenol			176U	176	16300
101-55-3	4-Bromophenyl phenyl ether			104U	104	3270
59-50-7	4-Chloro-3-methylphenol			73.5U	73.5	3270
106-47-8	4-Chloroaniline			62.8U	62.8	3270
7005-72-3	4-Chlorophenyl phenyl ether			72.7U	72.7	3270
100-01-6	4-Nitroaniline			42.1U	42.1	16300
100-02-7	4-Nitrophenol			208U	208	16300
83-32-9	Acenaphthene			2030J	100.0	3270
208-96-8	Acenaphthylene			66.8U	66.8	3270
98-86-2	Acetophenone			97.5U	97.5	3270
120-12-7	Anthracene			6460	67.2	3270
1912-24-9	Atrazine (Aatrex)			68.7U	68.7	6530
100-52-7	Benzaldehyde			317U	317	16300
56-55-3	Benzo(a)anthracene			12200	61.0	3270
50-32-8	Benzo(a)pyrene			12400	41.0	3270
205-99-2	Benzo(b)fluoranthene			14400	64.6	3270
191-24-2	Benzo(g,h,i)perylene			8530	49.4	3270
207-08-9	Benzo(k)fluoranthene			5890	50.5	3270
92-52-4	Biphenyl			48.3U	48.3	3270
111-91-1	Bis(2-Chloroethoxy)methane			57.0U	57.0	3270
111-44-4	Bis(2-Chloroethyl)ether			127U	127	3270
108-60-1	Bis(2-Chloroisopropyl)ether			71.6U	71.6	3270
117-81-7	Bis(2-Ethylhexyl)phthalate			46.3U	46.3	3270
85-68-7	Butyl benzyl phthalate			65.2U	65.2	3270
105-60-2	Caprolactam			145U	145	3270
86-74-8	Carbazole			1550J	63.2	3270
218-01-9	Chrysene			12500	70.8	3270
53-70-3	Dibenz(a,h)anthracene			2010J	46.9	3270
132-64-9	Dibenzofuran			954J	62.2	3270
84-66-2	Diethyl phthalate			121U	121	3270
131-11-3	Dimethyl phthalate			50.9U	50.9	3270
84-74-2	Di-n-butyl phthalate			63.2U	63.2	3270
117-84-0	Di-n-octyl phthalate			43.3U	43.3	3270
206-44-0	Fluoranthene			33700	53.2	3270
86-73-7	Fluorene			2510J	58.9	3270
118-74-1	Hexachlorobenzene			127U	127	3270
87-68-3	Hexachlorobutadiene			86.5U	86.5	3270

Sample Results

AS-032415-SS-01	Collect Date	03/24/2015 09:55	GCAL ID	21503271501
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/30/2015 22:56	TKH2	555308

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	693U	693	3270	ug/Kg
67-72-1	Hexachloroethane	155U	155	3270	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	8960	78.7	3270	ug/Kg
78-59-1	Isophorone	58.1U	58.1	3270	ug/Kg
1319-77-3MP	m,p-Cresol	123U	123	3270	ug/Kg
91-20-3	Naphthalene	102U	102	3270	ug/Kg
98-95-3	Nitrobenzene	170U	170	3270	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	143U	143	3270	ug/Kg
86-30-6	n-Nitrosodiphenylamine	69.1U	69.1	3270	ug/Kg
95-48-7	o-Cresol	101U	101	3270	ug/Kg
87-86-5	Pentachlorophenol	73.2U	73.2	16300	ug/Kg
85-01-8	Phenanthrene	18000	75.0	3270	ug/Kg
108-95-2	Phenol	90.1U	90.1	3270	ug/Kg
129-00-0	Pyrene	23900	45.8	3270	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1650	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1650	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1650	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3300	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3300	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3300	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 18:20	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	634	99.2	397	ug/Kg
7440-39-3	Barium	52300	99.2	397	ug/Kg
7440-43-9	Cadmium	114J	99.2	397	ug/Kg
7440-47-3	Chromium	10100	99.2	397	ug/Kg
7439-92-1	Lead	26700	99.2	397	ug/Kg
7782-49-2	Selenium	99.2U	99.2	397	ug/Kg
7440-22-4	Silver	99.2U	99.2	397	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:22	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.028	0.0044	0.011	mg/kg

Sample Results

AS-032415-SS-02	Collect Date	03/24/2015 10:18	GCAL ID	21503271502
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	03/31/2015 17:24	TKH2	555333

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	8.04U	8.04	326	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	10.2U	10.2	326	ug/Kg
95-95-4	2,4,5-Trichlorophenol	10.3U	10.3	326	ug/Kg
88-06-2	2,4,6-Trichlorophenol	11.4U	11.4	326	ug/Kg
120-83-2	2,4-Dichlorophenol	9.36U	9.36	326	ug/Kg
105-67-9	2,4-Dimethylphenol	6.43U	6.43	326	ug/Kg
51-28-5	2,4-Dinitrophenol	22.2U	22.2	326	ug/Kg
121-14-2	2,4-Dinitrotoluene	6.63U	6.63	326	ug/Kg
606-20-2	2,6-Dinitrotoluene	12.1U	12.1	326	ug/Kg
91-58-7	2-Chloronaphthalene	10.4U	10.4	326	ug/Kg
95-57-8	2-Chlorophenol	7.14U	7.14	326	ug/Kg
91-57-6	2-Methylnaphthalene	4.70U	4.70	326	ug/Kg
88-74-4	2-Nitroaniline	4.13U	4.13	1630	ug/Kg
88-75-5	2-Nitrophenol	11.6U	11.6	326	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	31.2U	31.2	651	ug/Kg
99-09-2	3-Nitroaniline	4.43U	4.43	1630	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	17.6U	17.6	1630	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	10.4U	10.4	326	ug/Kg
59-50-7	4-Chloro-3-methylphenol	7.32U	7.32	326	ug/Kg
106-47-8	4-Chloroaniline	6.26U	6.26	326	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	7.24U	7.24	326	ug/Kg
100-01-6	4-Nitroaniline	4.19U	4.19	1630	ug/Kg
100-02-7	4-Nitrophenol	20.7U	20.7	1630	ug/Kg
83-32-9	Acenaphthene	20.2J	9.97	326	ug/Kg
208-96-8	Acenaphthylene	24.4J	6.66	326	ug/Kg
98-86-2	Acetophenone	9.72U	9.72	326	ug/Kg
120-12-7	Anthracene	121J	6.70	326	ug/Kg
1912-24-9	Atrazine (Aatrex)	6.85U	6.85	651	ug/Kg
100-52-7	Benzaldehyde	31.6U	31.6	1630	ug/Kg
56-55-3	Benzo(a)anthracene	472	6.08	326	ug/Kg
50-32-8	Benzo(a)pyrene	686	4.09	326	ug/Kg
205-99-2	Benzo(b)fluoranthene	882	6.43	326	ug/Kg
191-24-2	Benzo(g,h,i)perylene	691	4.92	326	ug/Kg
207-08-9	Benzo(k)fluoranthene	324J	5.03	326	ug/Kg
92-52-4	Biphenyl	4.82U	4.82	326	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	5.68U	5.68	326	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	12.6U	12.6	326	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	7.13U	7.13	326	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	17.9J	4.62	326	ug/Kg
85-68-7	Butyl benzyl phthalate	6.50U	6.50	326	ug/Kg
105-60-2	Caprolactam	14.4U	14.4	326	ug/Kg
86-74-8	Carbazole	55.8J	6.30	326	ug/Kg
218-01-9	Chrysene	506	7.06	326	ug/Kg
53-70-3	Dibenz(a,h)anthracene	161J	4.68	326	ug/Kg
132-64-9	Dibenzofuran	8.26J	6.20	326	ug/Kg
84-66-2	Diethyl phthalate	12.0U	12.0	326	ug/Kg
131-11-3	Dimethyl phthalate	5.07U	5.07	326	ug/Kg
84-74-2	Di-n-butyl phthalate	11.9J	6.30	326	ug/Kg
117-84-0	Di-n-octyl phthalate	4.31U	4.31	326	ug/Kg
206-44-0	Fluoranthene	808	5.30	326	ug/Kg
86-73-7	Fluorene	25.3J	5.87	326	ug/Kg
118-74-1	Hexachlorobenzene	12.6U	12.6	326	ug/Kg
87-68-3	Hexachlorobutadiene	8.63U	8.63	326	ug/Kg

Sample Results

AS-032415-SS-02	Collect Date	03/24/2015 10:18	GCAL ID	21503271502
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	03/31/2015 17:24	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			69.1U	69.1	326
67-72-1	Hexachloroethane			15.5U	15.5	326
193-39-5	Indeno(1,2,3-cd)pyrene			696	7.85	326
78-59-1	Isophorone			5.79U	5.79	326
1319-77-3MP	m,p-Cresol			12.2U	12.2	326
91-20-3	Naphthalene			10.2U	10.2	326
98-95-3	Nitrobenzene			17.0U	17.0	326
621-64-7	n-Nitrosodi-n-propylamine			14.2U	14.2	326
86-30-6	n-Nitrosodiphenylamine			6.89U	6.89	326
95-48-7	o-Cresol			10.1U	10.1	326
87-86-5	Pentachlorophenol			7.29U	7.29	1630
85-01-8	Phenanthrene			292J	7.48	326
108-95-2	Phenol			8.98U	8.98	326
129-00-0	Pyrene			720	4.57	326
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	978	ug/Kg	59	37 - 122
321-60-8	2-Fluorobiphenyl	1640	1060	ug/Kg	64	44 - 115
1718-51-0	Terphenyl-d14	1640	1330	ug/Kg	81	54 - 127
4165-62-2	Phenol-d5	3290	2270	ug/Kg	69	33 - 122
367-12-4	2-Fluorophenol	3290	1990	ug/Kg	60	35 - 115
118-79-6	2,4,6-Tribromophenol	3290	2270	ug/Kg	69	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 18:30	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			367J	100	400
7440-39-3	Barium			48200	100	400
7440-43-9	Cadmium			100U	100	400
7440-47-3	Chromium			13600	100	400
7439-92-1	Lead			11100	100	400
7782-49-2	Selenium			100U	100	400
7440-22-4	Silver			100U	100	400

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:24	JBW2	555118
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.0098J	0.0047	0.012

Sample Results

AS-032415-SS-03	Collect Date	03/24/2015 10:27	GCAL ID	21503271503
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	100	03/31/2015 17:41	TKH2	555333

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	807U	807	32700	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1020U	1020	32700	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1030U	1030	32700	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1150U	1150	32700	ug/Kg
120-83-2	2,4-Dichlorophenol	939U	939	32700	ug/Kg
105-67-9	2,4-Dimethylphenol	646U	646	32700	ug/Kg
51-28-5	2,4-Dinitrophenol	2230U	2230	32700	ug/Kg
121-14-2	2,4-Dinitrotoluene	665U	665	32700	ug/Kg
606-20-2	2,6-Dinitrotoluene	1220U	1220	32700	ug/Kg
91-58-7	2-Chloronaphthalene	1040U	1040	32700	ug/Kg
95-57-8	2-Chlorophenol	717U	717	32700	ug/Kg
91-57-6	2-Methylnaphthalene	1720J	471	32700	ug/Kg
88-74-4	2-Nitroaniline	415U	415	163000	ug/Kg
88-75-5	2-Nitrophenol	1170U	1170	32700	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	3130U	3130	65300	ug/Kg
99-09-2	3-Nitroaniline	445U	445	163000	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1760U	1760	163000	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	1040U	1040	32700	ug/Kg
59-50-7	4-Chloro-3-methylphenol	735U	735	32700	ug/Kg
106-47-8	4-Chloroaniline	628U	628	32700	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	727U	727	32700	ug/Kg
100-01-6	4-Nitroaniline	421U	421	163000	ug/Kg
100-02-7	4-Nitrophenol	2080U	2080	163000	ug/Kg
83-32-9	Acenaphthene	15500J	1000	32700	ug/Kg
208-96-8	Acenaphthylene	14200J	668	32700	ug/Kg
98-86-2	Acetophenone	975U	975	32700	ug/Kg
120-12-7	Anthracene	99300	672	32700	ug/Kg
1912-24-9	Atrazine (Aatrex)	687U	687	65300	ug/Kg
100-52-7	Benzaldehyde	3170U	3170	163000	ug/Kg
56-55-3	Benzo(a)anthracene	104000	610	32700	ug/Kg
50-32-8	Benzo(a)pyrene	60100	410	32700	ug/Kg
205-99-2	Benzo(b)fluoranthene	159000	646	32700	ug/Kg
191-24-2	Benzo(g,h,i)perylene	46700	494	32700	ug/Kg
207-08-9	Benzo(k)fluoranthene	67700	505	32700	ug/Kg
92-52-4	Biphenyl	483U	483	32700	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	570U	570	32700	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	1270U	1270	32700	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	716U	716	32700	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	463U	463	32700	ug/Kg
85-68-7	Butyl benzyl phthalate	652U	652	32700	ug/Kg
105-60-2	Caprolactam	1450U	1450	32700	ug/Kg
86-74-8	Carbazole	12400J	632	32700	ug/Kg
218-01-9	Chrysene	134000	708	32700	ug/Kg
53-70-3	Dibenz(a,h)anthracene	19500J	469	32700	ug/Kg
132-64-9	Dibenzofuran	9080J	622	32700	ug/Kg
84-66-2	Diethyl phthalate	1210U	1210	32700	ug/Kg
131-11-3	Dimethyl phthalate	509U	509	32700	ug/Kg
84-74-2	Di-n-butyl phthalate	632U	632	32700	ug/Kg
117-84-0	Di-n-octyl phthalate	433U	433	32700	ug/Kg
206-44-0	Fluoranthene	221000	532	32700	ug/Kg
86-73-7	Fluorene	19700J	589	32700	ug/Kg
118-74-1	Hexachlorobenzene	1270U	1270	32700	ug/Kg
87-68-3	Hexachlorobutadiene	865U	865	32700	ug/Kg

Sample Results

AS-032415-SS-03	Collect Date	03/24/2015 10:27	GCAL ID	21503271503
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	100	03/31/2015 17:41	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			6930U	6930	32700
67-72-1	Hexachloroethane			1550U	1550	32700
193-39-5	Indeno(1,2,3-cd)pyrene			63100	787	32700
78-59-1	Isophorone			581U	581	32700
1319-77-3MP	m,p-Cresol			1230U	1230	32700
91-20-3	Naphthalene			1020U	1020	32700
98-95-3	Nitrobenzene			1700U	1700	32700
621-64-7	n-Nitrosodi-n-propylamine			1430U	1430	32700
86-30-6	n-Nitrosodiphenylamine			691U	691	32700
95-48-7	o-Cresol			1010U	1010	32700
87-86-5	Pentachlorophenol			3420J	732	163000
85-01-8	Phenanthrene			87500	750	32700
108-95-2	Phenol			901U	901	32700
129-00-0	Pyrene			153000	458	32700
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1650	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1650	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1650	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3300	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3300	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3300	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 18:44	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			933	100	400
7440-39-3	Barium			87400	100	400
7440-43-9	Cadmium			998	100	400
7440-47-3	Chromium			6400	100	400
7439-92-1	Lead			32100	100	400
7782-49-2	Selenium			100U	100	400
7440-22-4	Silver			100U	100	400

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:26	JBW2	555118
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.18	0.0045	0.011

Sample Results

AS-032415-SS-04	Collect Date	03/24/2015 10:42	GCAL ID	21503271504
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	200	03/31/2015 17:58	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
95-94-3	1,2,4,5-Tetrachlorobenzene			1610U	1610	65100
58-90-2	2,3,4,6-Tetrachlorophenol			2030U	2030	65100
95-95-4	2,4,5-Trichlorophenol			2050U	2050	65100
88-06-2	2,4,6-Trichlorophenol			2290U	2290	65100
120-83-2	2,4-Dichlorophenol			1870U	1870	65100
105-67-9	2,4-Dimethylphenol			1290U	1290	65100
51-28-5	2,4-Dinitrophenol			4440U	4440	65100
121-14-2	2,4-Dinitrotoluene			1330U	1330	65100
606-20-2	2,6-Dinitrotoluene			2430U	2430	65100
91-58-7	2-Chloronaphthalene			2070U	2070	65100
95-57-8	2-Chlorophenol			1430U	1430	65100
91-57-6	2-Methylnaphthalene			11900J	939	65100
88-74-4	2-Nitroaniline			827U	827	326000
88-75-5	2-Nitrophenol			2330U	2330	65100
91-94-1	3,3'-Dichlorobenzidine			6240U	6240	130000
99-09-2	3-Nitroaniline			886U	886	326000
534-52-1	4,6-Dinitro-2-methylphenol			3510U	3510	326000
101-55-3	4-Bromophenyl phenyl ether			2070U	2070	65100
59-50-7	4-Chloro-3-methylphenol			1460U	1460	65100
106-47-8	4-Chloroaniline			1250U	1250	65100
7005-72-3	4-Chlorophenyl phenyl ether			1450U	1450	65100
100-01-6	4-Nitroaniline			839U	839	326000
100-02-7	4-Nitrophenol			4140U	4140	326000
83-32-9	Acenaphthene			59900J	1990	65100
208-96-8	Acenaphthylene			1330U	1330	65100
98-86-2	Acetophenone			1940U	1940	65100
120-12-7	Anthracene			142000	1340	65100
1912-24-9	Atrazine (Aatrex)			1370U	1370	130000
100-52-7	Benzaldehyde			6320U	6320	326000
56-55-3	Benzo(a)anthracene			138000	1220	65100
50-32-8	Benzo(a)pyrene			122000	817	65100
205-99-2	Benzo(b)fluoranthene			136000	1290	65100
191-24-2	Benzo(g,h,i)perylene			80100	985	65100
207-08-9	Benzo(k)fluoranthene			56200J	1010	65100
92-52-4	Biphenyl			963U	963	65100
111-91-1	Bis(2-Chloroethoxy)methane			1140U	1140	65100
111-44-4	Bis(2-Chloroethyl)ether			2530U	2530	65100
108-60-1	Bis(2-Chloroisopropyl)ether			1430U	1430	65100
117-81-7	Bis(2-Ethylhexyl)phthalate			924U	924	65100
85-68-7	Butyl benzyl phthalate			1300U	1300	65100
105-60-2	Caprolactam			2880U	2880	65100
86-74-8	Carbazole			43900J	1260	65100
218-01-9	Chrysene			126000	1410	65100
53-70-3	Dibenz(a,h)anthracene			19400J	936	65100
132-64-9	Dibenzofuran			39000J	1240	65100
84-66-2	Diethyl phthalate			2410U	2410	65100
131-11-3	Dimethyl phthalate			1010U	1010	65100
84-74-2	Di-n-butyl phthalate			1260U	1260	65100
117-84-0	Di-n-octyl phthalate			863U	863	65100
206-44-0	Fluoranthene			472000	1060	65100
86-73-7	Fluorene			69200	1170	65100
118-74-1	Hexachlorobenzene			2530U	2530	65100
87-68-3	Hexachlorobutadiene			1730U	1730	65100

Sample Results

AS-032415-SS-04	Collect Date	03/24/2015 10:42	GCAL ID	21503271504
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	200	03/31/2015 17:58	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			13800U	13800	65100
67-72-1	Hexachloroethane			3100U	3100	65100
193-39-5	Indeno[1,2,3-cd]pyrene			84800	1570	65100
78-59-1	Isophorone			1160U	1160	65100
1319-77-3MP	m,p-Cresol			2450U	2450	65100
91-20-3	Naphthalene			28900J	2030	65100
98-95-3	Nitrobenzene			3390U	3390	65100
621-64-7	n-Nitrosodi-n-propylamine			2840U	2840	65100
86-30-6	n-Nitrosodiphenylamine			1380U	1380	65100
95-48-7	o-Cresol			2010U	2010	65100
87-86-5	Pentachlorophenol			1460U	1460	326000
85-01-8	Phenanthrene			435000	1500	65100
108-95-2	Phenol			1800U	1800	65100
129-00-0	Pyrene			284000	914	65100
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1640	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1640	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3290	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3290	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3290	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 19:21	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			1290	100	400
7440-39-3	Barium			51900	100	400
7440-43-9	Cadmium			212J	100	400
7440-47-3	Chromium			12200	100	400
7439-92-1	Lead			42600	100	400
7782-49-2	Selenium			100U	100	400
7440-22-4	Silver			100U	100	400

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:28	JBW2	555118
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.017	0.0041	0.010

Sample Results

AS-032415-SS-05	Collect Date	03/24/2015 10:50	GCAL ID	21503271505
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 18:15	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
95-94-3	1,2,4,5-Tetrachlorobenzene			81.5U	81.5	3300
58-90-2	2,3,4,6-Tetrachlorophenol			103U	103	3300
95-95-4	2,4,5-Trichlorophenol			104U	104	3300
88-06-2	2,4,6-Trichlorophenol			116U	116	3300
120-83-2	2,4-Dichlorophenol			94.8U	94.8	3300
105-67-9	2,4-Dimethylphenol			65.2U	65.2	3300
51-28-5	2,4-Dinitrophenol			225U	225	3300
121-14-2	2,4-Dinitrotoluene			67.2U	67.2	3300
606-20-2	2,6-Dinitrotoluene			123U	123	3300
91-58-7	2-Chloronaphthalene			105U	105	3300
95-57-8	2-Chlorophenol			72.4U	72.4	3300
91-57-6	2-Methylnaphthalene			47.6U	47.6	3300
88-74-4	2-Nitroaniline			41.9U	41.9	16500
88-75-5	2-Nitrophenol			118U	118	3300
91-94-1	3,3'-Dichlorobenzidine			316U	316	6600
99-09-2	3-Nitroaniline			44.9U	44.9	16500
534-52-1	4,6-Dinitro-2-methylphenol			178U	178	16500
101-55-3	4-Bromophenyl phenyl ether			105U	105	3300
59-50-7	4-Chloro-3-methylphenol			74.2U	74.2	3300
106-47-8	4-Chloroaniline			63.4U	63.4	3300
7005-72-3	4-Chlorophenyl phenyl ether			73.4U	73.4	3300
100-01-6	4-Nitroaniline			42.5U	42.5	16500
100-02-7	4-Nitrophenol			210U	210	16500
83-32-9	Acenaphthene			101U	101	3300
208-96-8	Acenaphthylene			67.5U	67.5	3300
98-86-2	Acetophenone			98.5U	98.5	3300
120-12-7	Anthracene			76.4J	67.9	3300
1912-24-9	Atrazine (Aatrex)			69.4U	69.4	6600
100-52-7	Benzaldehyde			320U	320	16500
56-55-3	Benzo(a)anthracene			170J	61.6	3300
50-32-8	Benzo(a)pyrene			241J	41.4	3300
205-99-2	Benzo(b)fluoranthene			395J	65.2	3300
191-24-2	Benzo(g,h,i)perylene			281J	49.9	3300
207-08-9	Benzo(k)fluoranthene			150J	51.0	3300
92-52-4	Biphenyl			48.8U	48.8	3300
111-91-1	Bis(2-Chloroethoxy)methane			57.6U	57.6	3300
111-44-4	Bis(2-Chloroethyl)ether			128U	128	3300
108-60-1	Bis(2-Chloroisopropyl)ether			72.3U	72.3	3300
117-81-7	Bis(2-Ethylhexyl)phthalate			46.8U	46.8	3300
85-68-7	Butyl benzyl phthalate			65.9U	65.9	3300
105-60-2	Caprolactam			146U	146	3300
86-74-8	Carbazole			63.8U	63.8	3300
218-01-9	Chrysene			240J	71.5	3300
53-70-3	Dibenz(a,h)anthracene			86.5J	47.4	3300
132-64-9	Dibenzofuran			62.8U	62.8	3300
84-66-2	Diethyl phthalate			122U	122	3300
131-11-3	Dimethyl phthalate			51.4U	51.4	3300
84-74-2	Di-n-butyl phthalate			63.8U	63.8	3300
117-84-0	Di-n-octyl phthalate			43.7U	43.7	3300
206-44-0	Fluoranthene			354J	53.7	3300
86-73-7	Fluorene			59.5U	59.5	3300
118-74-1	Hexachlorobenzene			128U	128	3300
87-68-3	Hexachlorobutadiene			87.4U	87.4	3300

Sample Results

AS-032415-SS-05	Collect Date	03/24/2015 10:50	GCAL ID	21503271505
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 18:15	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			700U	700	3300
67-72-1	Hexachloroethane			157U	157	3300
193-39-5	Indeno(1,2,3-cd)pyrene			312J	79.5	3300
78-59-1	Isophorone			58.7U	58.7	3300
1319-77-3MP	m,p-Cresol			124U	124	3300
91-20-3	Naphthalene			103U	103	3300
98-95-3	Nitrobenzene			172U	172	3300
621-64-7	n-Nitrosodi-n-propylamine			144U	144	3300
86-30-6	n-Nitrosodiphenylamine			69.8U	69.8	3300
95-48-7	o-Cresol			102U	102	3300
87-86-5	Pentachlorophenol			73.9U	73.9	16500
85-01-8	Phenanthrene			83.0J	75.8	3300
108-95-2	Phenol			91.0U	91.0	3300
129-00-0	Pyrene			262J	46.3	3300
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1670	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1670	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3330	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3330	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3330	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 19:30	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			902	97.7	391
7440-39-3	Barium			69300	97.7	391
7440-43-9	Cadmium			145J	97.7	391
7440-47-3	Chromium			10100	97.7	391
7439-92-1	Lead			47100	97.7	391
7782-49-2	Selenium			97.7U	97.7	391
7440-22-4	Silver			97.7U	97.7	391

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:30	JBW2	555118
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.036	0.0044	0.011

Sample Results

AS-032415-SD-01	Collect Date	03/24/2015 11:10	GCAL ID	21503271506
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	03/31/2015 18:32	TKH2	555333

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	8.12U	8.12	329	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	10.3U	10.3	329	ug/Kg
95-95-4	2,4,5-Trichlorophenol	10.4U	10.4	329	ug/Kg
88-06-2	2,4,6-Trichlorophenol	11.6U	11.6	329	ug/Kg
120-83-2	2,4-Dichlorophenol	9.45U	9.45	329	ug/Kg
105-67-9	2,4-Dimethylphenol	6.50U	6.50	329	ug/Kg
51-28-5	2,4-Dinitrophenol	22.4U	22.4	329	ug/Kg
121-14-2	2,4-Dinitrotoluene	6.70U	6.70	329	ug/Kg
606-20-2	2,6-Dinitrotoluene	12.3U	12.3	329	ug/Kg
91-58-7	2-Chloronaphthalene	10.5U	10.5	329	ug/Kg
95-57-8	2-Chlorophenol	7.22U	7.22	329	ug/Kg
91-57-6	2-Methylnaphthalene	4.74U	4.74	329	ug/Kg
88-74-4	2-Nitroaniline	4.18U	4.18	1640	ug/Kg
88-75-5	2-Nitrophenol	11.8U	11.8	329	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	31.5U	31.5	658	ug/Kg
99-09-2	3-Nitroaniline	4.48U	4.48	1640	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	17.7U	17.7	1640	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	10.5U	10.5	329	ug/Kg
59-50-7	4-Chloro-3-methylphenol	7.40U	7.40	329	ug/Kg
106-47-8	4-Chloroaniline	6.32U	6.32	329	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	7.32U	7.32	329	ug/Kg
100-01-6	4-Nitroaniline	4.24U	4.24	1640	ug/Kg
100-02-7	4-Nitrophenol	20.9U	20.9	1640	ug/Kg
83-32-9	Acenaphthene	10.1U	10.1	329	ug/Kg
208-96-8	Acenaphthylene	6.73U	6.73	329	ug/Kg
98-86-2	Acetophenone	9.82U	9.82	329	ug/Kg
120-12-7	Anthracene	12.2J	6.77	329	ug/Kg
1912-24-9	Atrazine (Aatrex)	6.92U	6.92	658	ug/Kg
100-52-7	Benzaldehyde	50.0J	31.9	1640	ug/Kg
56-55-3	Benzo(a)anthracene	84.8J	6.14	329	ug/Kg
50-32-8	Benzo(a)pyrene	121J	4.13	329	ug/Kg
205-99-2	Benzo(b)fluoranthene	182J	6.50	329	ug/Kg
191-24-2	Benzo(g,h,i)perylene	159J	4.97	329	ug/Kg
207-08-9	Benzo(k)fluoranthene	59.7J	5.08	329	ug/Kg
92-52-4	Biphenyl	4.86U	4.86	329	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	5.74U	5.74	329	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	12.8U	12.8	329	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	7.21U	7.21	329	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	27.1J	4.66	329	ug/Kg
85-68-7	Butyl benzyl phthalate	6.57U	6.57	329	ug/Kg
105-60-2	Caprolactam	14.6U	14.6	329	ug/Kg
86-74-8	Carbazole	8.64J	6.36	329	ug/Kg
218-01-9	Chrysene	120J	7.13	329	ug/Kg
53-70-3	Dibenz(a,h)anthracene	32.2J	4.72	329	ug/Kg
132-64-9	Dibenzofuran	6.26U	6.26	329	ug/Kg
84-66-2	Diethyl phthalate	12.2U	12.2	329	ug/Kg
131-11-3	Dimethyl phthalate	5.12U	5.12	329	ug/Kg
84-74-2	Di-n-butyl phthalate	6.36U	6.36	329	ug/Kg
117-84-0	Di-n-octyl phthalate	4.36U	4.36	329	ug/Kg
206-44-0	Fluoranthene	178J	5.35	329	ug/Kg
86-73-7	Fluorene	5.93U	5.93	329	ug/Kg
118-74-1	Hexachlorobenzene	12.8U	12.8	329	ug/Kg
87-68-3	Hexachlorobutadiene	8.71U	8.71	329	ug/Kg

Sample Results

AS-032415-SD-01	Collect Date	03/24/2015 11:10	GCAL ID	21503271506
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	03/31/2015 18:32	TKH2	555333

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	69.8U	69.8	329	ug/Kg
67-72-1	Hexachloroethane	15.6U	15.6	329	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	152J	7.92	329	ug/Kg
78-59-1	Isophorone	5.85U	5.85	329	ug/Kg
1319-77-3MP	m,p-Cresol	12.4U	12.4	329	ug/Kg
91-20-3	Naphthalene	10.3U	10.3	329	ug/Kg
98-95-3	Nitrobenzene	17.1U	17.1	329	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	14.4U	14.4	329	ug/Kg
86-30-6	n-Nitrosodiphenylamine	6.96U	6.96	329	ug/Kg
95-48-7	o-Cresol	10.2U	10.2	329	ug/Kg
87-86-5	Pentachlorophenol	7.37U	7.37	1640	ug/Kg
85-01-8	Phenanthrene	46.8J	7.55	329	ug/Kg
108-95-2	Phenol	9.07U	9.07	329	ug/Kg
129-00-0	Pyrene	154J	4.61	329	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	898	ug/Kg	54	37 - 122
321-60-8	2-Fluorobiphenyl	1660	995	ug/Kg	60	44 - 115
1718-51-0	Terphenyl-d14	1660	1190	ug/Kg	72	54 - 127
4165-62-2	Phenol-d5	3320	2030	ug/Kg	61	33 - 122
367-12-4	2-Fluorophenol	3320	1830	ug/Kg	55	35 - 115
118-79-6	2,4,6-Tribromophenol	3320	1960	ug/Kg	59	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 19:40	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	752	98.4	394	ug/Kg
7440-39-3	Barium	39700	98.4	394	ug/Kg
7440-43-9	Cadmium	98.4U	98.4	394	ug/Kg
7440-47-3	Chromium	3660	98.4	394	ug/Kg
7439-92-1	Lead	56800	98.4	394	ug/Kg
7782-49-2	Selenium	98.4U	98.4	394	ug/Kg
7440-22-4	Silver	98.4U	98.4	394	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:32	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.060	0.0046	0.012	mg/kg

Sample Results

AS-032415-SD-02	Collect Date	03/24/2015 11:30	GCAL ID	21503271507
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	25	03/31/2015 18:49	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
95-94-3	1,2,4,5-Tetrachlorobenzene			204U	204	8250
58-90-2	2,3,4,6-Tetrachlorophenol			258U	258	8250
95-95-4	2,4,5-Trichlorophenol			260U	260	8250
88-06-2	2,4,6-Trichlorophenol			290U	290	8250
120-83-2	2,4-Dichlorophenol			237U	237	8250
105-67-9	2,4-Dimethylphenol			163U	163	8250
51-28-5	2,4-Dinitrophenol			563U	563	8250
121-14-2	2,4-Dinitrotoluene			168U	168	8250
606-20-2	2,6-Dinitrotoluene			308U	308	8250
91-58-7	2-Chloronaphthalene			263U	263	8250
95-57-8	2-Chlorophenol			181U	181	8250
91-57-6	2-Methylnaphthalene			175J	119	8250
88-74-4	2-Nitroaniline			105U	105	41300
88-75-5	2-Nitrophenol			295U	295	8250
91-94-1	3,3'-Dichlorobenzidine			790U	790	16500
99-09-2	3-Nitroaniline			112U	112	41300
534-52-1	4,6-Dinitro-2-methylphenol			445U	445	41300
101-55-3	4-Bromophenyl phenyl ether			263U	263	8250
59-50-7	4-Chloro-3-methylphenol			186U	186	8250
106-47-8	4-Chloroaniline			159U	159	8250
7005-72-3	4-Chlorophenyl phenyl ether			184U	184	8250
100-01-6	4-Nitroaniline			106U	106	41300
100-02-7	4-Nitrophenol			525U	525	41300
83-32-9	Acenaphthene			2190J	253	8250
208-96-8	Acenaphthylene			169U	169	8250
98-86-2	Acetophenone			246U	246	8250
120-12-7	Anthracene			7760J	170	8250
1912-24-9	Atrazine (Aatrex)			174U	174	16500
100-52-7	Benzaldehyde			800U	800	41300
56-55-3	Benzo(a)anthracene			34400	154	8250
50-32-8	Benzo(a)pyrene			49000	104	8250
205-99-2	Benzo(b)fluoranthene			56200	163	8250
191-24-2	Benzo(g,h,i)perylene			42600	125	8250
207-08-9	Benzo(k)fluoranthene			20800	128	8250
92-52-4	Biphenyl			122U	122	8250
111-91-1	Bis(2-Chloroethoxy)methane			144U	144	8250
111-44-4	Bis(2-Chloroethyl)ether			320U	320	8250
108-60-1	Bis(2-Chloroisopropyl)ether			181U	181	8250
117-81-7	Bis(2-Ethylhexyl)phthalate			1610J	117	8250
85-68-7	Butyl benzyl phthalate			165U	165	8250
105-60-2	Caprolactam			365U	365	8250
86-74-8	Carbazole			3240J	160	8250
218-01-9	Chrysene			37600	179	8250
53-70-3	Dibenz(a,h)anthracene			11100	119	8250
132-64-9	Dibenzofuran			157U	157	8250
84-66-2	Diethyl phthalate			305U	305	8250
131-11-3	Dimethyl phthalate			129U	129	8250
84-74-2	Di-n-butyl phthalate			160U	160	8250
117-84-0	Di-n-octyl phthalate			109U	109	8250
206-44-0	Fluoranthene			82600	134	8250
86-73-7	Fluorene			2520J	149	8250
118-74-1	Hexachlorobenzene			320U	320	8250
87-68-3	Hexachlorobutadiene			219U	219	8250

Sample Results

AS-032415-SD-02	Collect Date	03/24/2015 11:30	GCAL ID	21503271507
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	25	03/31/2015 18:49	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			1750U	1750	8250
67-72-1	Hexachloroethane			393U	393	8250
193-39-5	Indeno(1,2,3-cd)pyrene			45500	199	8250
78-59-1	Isophorone			147U	147	8250
1319-77-3MP	m,p-Cresol			310U	310	8250
91-20-3	Naphthalene			385J	258	8250
98-95-3	Nitrobenzene			430U	430	8250
621-64-7	n-Nitrosodi-n-propylamine			360U	360	8250
86-30-6	n-Nitrosodiphenylamine			175U	175	8250
95-48-7	o-Cresol			255U	255	8250
87-86-5	Pentachlorophenol			185U	185	41300
85-01-8	Phenanthrene			27500	190	8250
108-95-2	Phenol			228U	228	8250
129-00-0	Pyrene			47000	116	8250
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1670	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1670	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3330	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3330	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3330	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 19:54	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			696	100	400
7440-39-3	Barium			53800	100	400
7440-43-9	Cadmium			186J	100	400
7440-47-3	Chromium			7650	100	400
7439-92-1	Lead			41400	100	400
7782-49-2	Selenium			100U	100	400
7440-22-4	Silver			104J	100	400

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:34	JBW2	555118
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.010J	0.0044	0.011

Sample Results

AS-032415-SD-03	Collect Date	03/24/2015 11:35	GCAL ID	21503271508
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	20	03/31/2015 19:05	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
95-94-3	1,2,4,5-Tetrachlorobenzene			161U	161	6530
58-90-2	2,3,4,6-Tetrachlorophenol			204U	204	6530
95-95-4	2,4,5-Trichlorophenol			206U	206	6530
88-06-2	2,4,6-Trichlorophenol			230U	230	6530
120-83-2	2,4-Dichlorophenol			188U	188	6530
105-67-9	2,4-Dimethylphenol			129U	129	6530
51-28-5	2,4-Dinitrophenol			446U	446	6530
121-14-2	2,4-Dinitrotoluene			133U	133	6530
606-20-2	2,6-Dinitrotoluene			244U	244	6530
91-58-7	2-Chloronaphthalene			208U	208	6530
95-57-8	2-Chlorophenol			143U	143	6530
91-57-6	2-Methylnaphthalene			94.3U	94.3	6530
88-74-4	2-Nitroaniline			83.0U	83.0	32700
88-75-5	2-Nitrophenol			234U	234	6530
91-94-1	3,3'-Dichlorobenzidine			626U	626	13100
99-09-2	3-Nitroaniline			88.9U	88.9	32700
534-52-1	4,6-Dinitro-2-methylphenol			352U	352	32700
101-55-3	4-Bromophenyl phenyl ether			208U	208	6530
59-50-7	4-Chloro-3-methylphenol			147U	147	6530
106-47-8	4-Chloroaniline			126U	126	6530
7005-72-3	4-Chlorophenyl phenyl ether			145U	145	6530
100-01-6	4-Nitroaniline			84.2U	84.2	32700
100-02-7	4-Nitrophenol			416U	416	32700
83-32-9	Acenaphthene			565J	200	6530
208-96-8	Acenaphthylene			134U	134	6530
98-86-2	Acetophenone			195U	195	6530
120-12-7	Anthracene			1890J	134	6530
1912-24-9	Atrazine (Aatrex)			137U	137	13100
100-52-7	Benzaldehyde			634U	634	32700
56-55-3	Benzo(a)anthracene			9200	122	6530
50-32-8	Benzo(a)pyrene			13600	82.0	6530
205-99-2	Benzo(b)fluoranthene			15300	129	6530
191-24-2	Benzo(g,h,i)perylene			12700	98.8	6530
207-08-9	Benzo(k)fluoranthene			5350J	101	6530
92-52-4	Biphenyl			96.6U	96.6	6530
111-91-1	Bis(2-Chloroethoxy)methane			114U	114	6530
111-44-4	Bis(2-Chloroethyl)ether			253U	253	6530
108-60-1	Bis(2-Chloroisopropyl)ether			143U	143	6530
117-81-7	Bis(2-Ethylhexyl)phthalate			423J	92.7	6530
85-68-7	Butyl benzyl phthalate			130U	130	6530
105-60-2	Caprolactam			289U	289	6530
86-74-8	Carbazole			787J	126	6530
218-01-9	Chrysene			9550	142	6530
53-70-3	Dibenz(a,h)anthracene			2950J	93.9	6530
132-64-9	Dibenzofuran			219J	124	6530
84-66-2	Diethyl phthalate			242U	242	6530
131-11-3	Dimethyl phthalate			102U	102	6530
84-74-2	Di-n-butyl phthalate			126U	126	6530
117-84-0	Di-n-octyl phthalate			86.5U	86.5	6530
206-44-0	Fluoranthene			20400	106	6530
86-73-7	Fluorene			658J	118	6530
118-74-1	Hexachlorobenzene			253U	253	6530
87-68-3	Hexachlorobutadiene			173U	173	6530

Sample Results

AS-032415-SD-03	Collect Date	03/24/2015 11:35	GCAL ID	21503271508
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	20	03/31/2015 19:05	TKH2	555333
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			1390U	1390	6530
67-72-1	Hexachloroethane			311U	311	6530
193-39-5	Indeno(1,2,3-cd)pyrene			13100	157	6530
78-59-1	Isophorone			116U	116	6530
1319-77-3MP	m,p-Cresol			246U	246	6530
91-20-3	Naphthalene			204U	204	6530
98-95-3	Nitrobenzene			341U	341	6530
621-64-7	n-Nitrosodi-n-propylamine			285U	285	6530
86-30-6	n-Nitrosodiphenylamine			138U	138	6530
95-48-7	o-Cresol			202U	202	6530
87-86-5	Pentachlorophenol			146U	146	32700
85-01-8	Phenanthrene			6880	150	6530
108-95-2	Phenol			180U	180	6530
129-00-0	Pyrene			91.7U	91.7	6530
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1650	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1650	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1650	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3300	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3300	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3300	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 20:03	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			984	96.9	388
7440-39-3	Barium			47900	96.9	388
7440-43-9	Cadmium			199J	96.9	388
7440-47-3	Chromium			8640	96.9	388
7439-92-1	Lead			46000	96.9	388
7782-49-2	Selenium			96.9U	96.9	388
7440-22-4	Silver			96.9U	96.9	388

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:40	JBW2	555118
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.021	0.0041	0.010

Sample Results

AS-032415-SD-04	Collect Date	03/24/2015 11:45	GCAL ID	21503271509
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 01:10	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	81.5U	81.5	3300	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	103U	103	3300	ug/Kg
95-95-4	2,4,5-Trichlorophenol	104U	104	3300	ug/Kg
88-06-2	2,4,6-Trichlorophenol	116U	116	3300	ug/Kg
120-83-2	2,4-Dichlorophenol	94.8U	94.8	3300	ug/Kg
105-67-9	2,4-Dimethylphenol	65.2U	65.2	3300	ug/Kg
51-28-5	2,4-Dinitrophenol	225U	225	3300	ug/Kg
121-14-2	2,4-Dinitrotoluene	67.2U	67.2	3300	ug/Kg
606-20-2	2,6-Dinitrotoluene	123U	123	3300	ug/Kg
91-58-7	2-Chloronaphthalene	105U	105	3300	ug/Kg
95-57-8	2-Chlorophenol	72.4U	72.4	3300	ug/Kg
91-57-6	2-Methylnaphthalene	47.6U	47.6	3300	ug/Kg
88-74-4	2-Nitroaniline	41.9U	41.9	16500	ug/Kg
88-75-5	2-Nitrophenol	118U	118	3300	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	316U	316	6600	ug/Kg
99-09-2	3-Nitroaniline	44.9U	44.9	16500	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	178U	178	16500	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	105U	105	3300	ug/Kg
59-50-7	4-Chloro-3-methylphenol	74.2U	74.2	3300	ug/Kg
106-47-8	4-Chloroaniline	63.4U	63.4	3300	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	73.4U	73.4	3300	ug/Kg
100-01-6	4-Nitroaniline	42.5U	42.5	16500	ug/Kg
100-02-7	4-Nitrophenol	210U	210	16500	ug/Kg
83-32-9	Acenaphthene	764J	101	3300	ug/Kg
208-96-8	Acenaphthylene	422J	67.5	3300	ug/Kg
98-86-2	Acetophenone	98.5U	98.5	3300	ug/Kg
120-12-7	Anthracene	3030J	67.9	3300	ug/Kg
1912-24-9	Atrazine (Aatrex)	69.4U	69.4	6600	ug/Kg
100-52-7	Benzaldehyde	320U	320	16500	ug/Kg
56-55-3	Benzo(a)anthracene	29600	61.6	3300	ug/Kg
50-32-8	Benzo(a)pyrene	39700	41.4	3300	ug/Kg
205-99-2	Benzo(b)fluoranthene	51100	65.2	3300	ug/Kg
191-24-2	Benzo(g,h,i)perylene	27400	49.9	3300	ug/Kg
207-08-9	Benzo(k)fluoranthene	16100	51.0	3300	ug/Kg
92-52-4	Biphenyl	48.8U	48.8	3300	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	57.6U	57.6	3300	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	128U	128	3300	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	72.3U	72.3	3300	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	443J	46.8	3300	ug/Kg
85-68-7	Butyl benzyl phthalate	65.9U	65.9	3300	ug/Kg
105-60-2	Caprolactam	146U	146	3300	ug/Kg
86-74-8	Carbazole	1280J	63.8	3300	ug/Kg
218-01-9	Chrysene	31500	71.5	3300	ug/Kg
53-70-3	Dibenz(a,h)anthracene	10300	47.4	3300	ug/Kg
132-64-9	Dibenzofuran	227J	62.8	3300	ug/Kg
84-66-2	Diethyl phthalate	122U	122	3300	ug/Kg
131-11-3	Dimethyl phthalate	51.4U	51.4	3300	ug/Kg
84-74-2	Di-n-butyl phthalate	63.8U	63.8	3300	ug/Kg
117-84-0	Di-n-octyl phthalate	43.7U	43.7	3300	ug/Kg
206-44-0	Fluoranthene	62700	53.7	3300	ug/Kg
86-73-7	Fluorene	731J	59.5	3300	ug/Kg
118-74-1	Hexachlorobenzene	128U	128	3300	ug/Kg
87-68-3	Hexachlorobutadiene	87.4U	87.4	3300	ug/Kg

Sample Results

AS-032415-SD-04	Collect Date	03/24/2015 11:45	GCAL ID	21503271509
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 01:10	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	700U	700	3300	ug/Kg
67-72-1	Hexachloroethane	157U	157	3300	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31000	79.5	3300	ug/Kg
78-59-1	Isophorone	58.7U	58.7	3300	ug/Kg
1319-77-3MP	m,p-Cresol	124U	124	3300	ug/Kg
91-20-3	Naphthalene	103U	103	3300	ug/Kg
98-95-3	Nitrobenzene	172U	172	3300	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	144U	144	3300	ug/Kg
86-30-6	n-Nitrosodiphenylamine	69.8U	69.8	3300	ug/Kg
95-48-7	o-Cresol	102U	102	3300	ug/Kg
87-86-5	Pentachlorophenol	73.9U	73.9	16500	ug/Kg
85-01-8	Phenanthrene	11700	75.8	3300	ug/Kg
108-95-2	Phenol	91.0U	91.0	3300	ug/Kg
129-00-0	Pyrene	39400	46.3	3300	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1670	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1670	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3330	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3330	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3330	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 20:31	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1090	100	400	ug/Kg
7440-39-3	Barium	60200	100	400	ug/Kg
7440-43-9	Cadmium	376J	100	400	ug/Kg
7440-47-3	Chromium	12000	100	400	ug/Kg
7439-92-1	Lead	48400	100	400	ug/Kg
7782-49-2	Selenium	100U	100	400	ug/Kg
7440-22-4	Silver	112J	100	400	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:42	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.029	0.0041	0.010	mg/kg

Sample Results

AS-032415-SD-05	Collect Date	03/24/2015 12:00	GCAL ID	21503271510
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 01:26	DSL	555308
CAS#	Parameter			Result	MDL	LOQ
95-94-3	1,2,4,5-Tetrachlorobenzene			81.0U	81.0	3280
58-90-2	2,3,4,6-Tetrachlorophenol			102U	102	3280
95-95-4	2,4,5-Trichlorophenol			103U	103	3280
88-06-2	2,4,6-Trichlorophenol			115U	115	3280
120-83-2	2,4-Dichlorophenol			94.2U	94.2	3280
105-67-9	2,4-Dimethylphenol			64.8U	64.8	3280
51-28-5	2,4-Dinitrophenol			224U	224	3280
121-14-2	2,4-Dinitrotoluene			66.8U	66.8	3280
606-20-2	2,6-Dinitrotoluene			122U	122	3280
91-58-7	2-Chloronaphthalene			104U	104	3280
95-57-8	2-Chlorophenol			71.9U	71.9	3280
91-57-6	2-Methylnaphthalene			47.3U	47.3	3280
88-74-4	2-Nitroaniline			41.6U	41.6	16400
88-75-5	2-Nitrophenol			117U	117	3280
91-94-1	3,3'-Dichlorobenzidine			314U	314	6560
99-09-2	3-Nitroaniline			44.6U	44.6	16400
534-52-1	4,6-Dinitro-2-methylphenol			177U	177	16400
101-55-3	4-Bromophenyl phenyl ether			104U	104	3280
59-50-7	4-Chloro-3-methylphenol			73.7U	73.7	3280
106-47-8	4-Chloroaniline			63.0U	63.0	3280
7005-72-3	4-Chlorophenyl phenyl ether			72.9U	72.9	3280
100-01-6	4-Nitroaniline			42.2U	42.2	16400
100-02-7	4-Nitrophenol			209U	209	16400
83-32-9	Acenaphthene			495J	100	3280
208-96-8	Acenaphthylene			267J	67.1	3280
98-86-2	Acetophenone			97.8U	97.8	3280
120-12-7	Anthracene			1740J	67.5	3280
1912-24-9	Atrazine (Aatrex)			68.9U	68.9	6560
100-52-7	Benzaldehyde			318U	318	16400
56-55-3	Benzo(a)anthracene			19400	61.2	3280
50-32-8	Benzo(a)pyrene			27600	41.1	3280
205-99-2	Benzo(b)fluoranthene			34000	64.8	3280
191-24-2	Benzo(g,h,i)perylene			16800	49.6	3280
207-08-9	Benzo(k)fluoranthene			11800	50.7	3280
92-52-4	Biphenyl			48.5U	48.5	3280
111-91-1	Bis(2-Chloroethoxy)methane			57.2U	57.2	3280
111-44-4	Bis(2-Chloroethyl)ether			127U	127	3280
108-60-1	Bis(2-Chloroisopropyl)ether			71.8U	71.8	3280
117-81-7	Bis(2-Ethylhexyl)phthalate			46.5U	46.5	3280
85-68-7	Butyl benzyl phthalate			490J	65.5	3280
105-60-2	Caprolactam			145U	145	3280
86-74-8	Carbazole			594J	63.4	3280
218-01-9	Chrysene			19600	71.0	3280
53-70-3	Dibenz(a,h)anthracene			4970	47.1	3280
132-64-9	Dibenzofuran			62.4U	62.4	3280
84-66-2	Diethyl phthalate			121U	121	3280
131-11-3	Dimethyl phthalate			51.1U	51.1	3280
84-74-2	Di-n-butyl phthalate			63.4U	63.4	3280
117-84-0	Di-n-octyl phthalate			43.4U	43.4	3280
206-44-0	Fluoranthene			40500	53.3	3280
86-73-7	Fluorene			445J	59.1	3280
118-74-1	Hexachlorobenzene			127U	127	3280
87-68-3	Hexachlorobutadiene			86.8U	86.8	3280

Sample Results

AS-032415-SD-05	Collect Date	03/24/2015 12:00	GCAL ID	21503271510
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 01:26	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	695U	695	3280	ug/Kg
67-72-1	Hexachloroethane	156U	156	3280	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	19000	79.0	3280	ug/Kg
78-59-1	Isophorone	58.3U	58.3	3280	ug/Kg
1319-77-3MP	m,p-Cresol	123U	123	3280	ug/Kg
91-20-3	Naphthalene	102U	102	3280	ug/Kg
98-95-3	Nitrobenzene	171U	171	3280	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	143U	143	3280	ug/Kg
86-30-6	n-Nitrosodiphenylamine	69.3U	69.3	3280	ug/Kg
95-48-7	o-Cresol	101U	101	3280	ug/Kg
87-86-5	Pentachlorophenol	73.4U	73.4	16400	ug/Kg
85-01-8	Phenanthrene	5880	75.3	3280	ug/Kg
108-95-2	Phenol	90.4U	90.4	3280	ug/Kg
129-00-0	Pyrene	24700	46.0	3280	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1660	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1660	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3310	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3310	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3310	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 20:40	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1120	99.2	397	ug/Kg
7440-39-3	Barium	72900	99.2	397	ug/Kg
7440-43-9	Cadmium	476	99.2	397	ug/Kg
7440-47-3	Chromium	11000	99.2	397	ug/Kg
7439-92-1	Lead	49600	99.2	397	ug/Kg
7782-49-2	Selenium	99.2U	99.2	397	ug/Kg
7440-22-4	Silver	107J	99.2	397	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:44	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.045	0.0044	0.011	mg/kg

Sample Results

AS-032415-SD-06	Collect Date	03/24/2015 12:10	GCAL ID	21503271511
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 01:43	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	80.2U	80.2	3250	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	101U	101	3250	ug/Kg
95-95-4	2,4,5-Trichlorophenol	102U	102	3250	ug/Kg
88-06-2	2,4,6-Trichlorophenol	114U	114	3250	ug/Kg
120-83-2	2,4-Dichlorophenol	93.2U	93.2	3250	ug/Kg
105-67-9	2,4-Dimethylphenol	64.1U	64.1	3250	ug/Kg
51-28-5	2,4-Dinitrophenol	221U	221	3250	ug/Kg
121-14-2	2,4-Dinitrotoluene	66.1U	66.1	3250	ug/Kg
606-20-2	2,6-Dinitrotoluene	121U	121	3250	ug/Kg
91-58-7	2-Chloronaphthalene	103U	103	3250	ug/Kg
95-57-8	2-Chlorophenol	71.2U	71.2	3250	ug/Kg
91-57-6	2-Methylnaphthalene	46.8U	46.8	3250	ug/Kg
88-74-4	2-Nitroaniline	41.2U	41.2	16200	ug/Kg
88-75-5	2-Nitrophenol	116U	116	3250	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	311U	311	6490	ug/Kg
99-09-2	3-Nitroaniline	44.2U	44.2	16200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	175U	175	16200	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	103U	103	3250	ug/Kg
59-50-7	4-Chloro-3-methylphenol	73.0U	73.0	3250	ug/Kg
106-47-8	4-Chloroaniline	62.4U	62.4	3250	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	72.2U	72.2	3250	ug/Kg
100-01-6	4-Nitroaniline	41.8U	41.8	16200	ug/Kg
100-02-7	4-Nitrophenol	207U	207	16200	ug/Kg
83-32-9	Acenaphthene	118J	99.3	3250	ug/Kg
208-96-8	Acenaphthylene	115J	66.4	3250	ug/Kg
98-86-2	Acetophenone	96.9U	96.9	3250	ug/Kg
120-12-7	Anthracene	411J	66.8	3250	ug/Kg
1912-24-9	Atrazine (Aatrex)	68.3U	68.3	6490	ug/Kg
100-52-7	Benzaldehyde	315U	315	16200	ug/Kg
56-55-3	Benzo(a)anthracene	5420	60.6	3250	ug/Kg
50-32-8	Benzo(a)pyrene	8000	40.7	3250	ug/Kg
205-99-2	Benzo(b)fluoranthene	10000	64.1	3250	ug/Kg
191-24-2	Benzo(g,h,i)perylene	5380	49.1	3250	ug/Kg
207-08-9	Benzo(k)fluoranthene	3730	50.2	3250	ug/Kg
92-52-4	Biphenyl	48.0U	48.0	3250	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	56.7U	56.7	3250	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	126U	126	3250	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	71.1U	71.1	3250	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	46.0U	46.0	3250	ug/Kg
85-68-7	Butyl benzyl phthalate	64.8U	64.8	3250	ug/Kg
105-60-2	Caprolactam	144U	144	3250	ug/Kg
86-74-8	Carbazole	209J	62.8	3250	ug/Kg
218-01-9	Chrysene	5860	70.3	3250	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1440J	46.6	3250	ug/Kg
132-64-9	Dibenzofuran	61.8U	61.8	3250	ug/Kg
84-66-2	Diethyl phthalate	120U	120	3250	ug/Kg
131-11-3	Dimethyl phthalate	50.6U	50.6	3250	ug/Kg
84-74-2	Di-n-butyl phthalate	62.8U	62.8	3250	ug/Kg
117-84-0	Di-n-octyl phthalate	43.0U	43.0	3250	ug/Kg
206-44-0	Fluoranthene	12400	52.8	3250	ug/Kg
86-73-7	Fluorene	110J	58.5	3250	ug/Kg
118-74-1	Hexachlorobenzene	126U	126	3250	ug/Kg
87-68-3	Hexachlorobutadiene	86.0U	86.0	3250	ug/Kg

Sample Results

AS-032415-SD-06	Collect Date	03/24/2015 12:10	GCAL ID	21503271511
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 01:43	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	689U	689	3250	ug/Kg
67-72-1	Hexachloroethane	154U	154	3250	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	6160	78.2	3250	ug/Kg
78-59-1	Isophorone	57.7U	57.7	3250	ug/Kg
1319-77-3MP	m,p-Cresol	122U	122	3250	ug/Kg
91-20-3	Naphthalene	101U	101	3250	ug/Kg
98-95-3	Nitrobenzene	169U	169	3250	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	142U	142	3250	ug/Kg
86-30-6	n-Nitrosodiphenylamine	68.7U	68.7	3250	ug/Kg
95-48-7	o-Cresol	100U	100	3250	ug/Kg
87-86-5	Pentachlorophenol	72.7U	72.7	16200	ug/Kg
85-01-8	Phenanthrene	1620J	74.6	3250	ug/Kg
108-95-2	Phenol	89.5U	89.5	3250	ug/Kg
129-00-0	Pyrene	7150	45.5	3250	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1640	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1640	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3280	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3280	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3280	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 20:50	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	732	100	400	ug/Kg
7440-39-3	Barium	30200	100	400	ug/Kg
7440-43-9	Cadmium	127J	100	400	ug/Kg
7440-47-3	Chromium	8160	100	400	ug/Kg
7439-92-1	Lead	21800	100	400	ug/Kg
7782-49-2	Selenium	100U	100	400	ug/Kg
7440-22-4	Silver	136J	100	400	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:46	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.029	0.0044	0.011	mg/kg

Sample Results

AS-032415-SD-07	Collect Date	03/24/2015 12:20	GCAL ID	21503271512
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 02:00	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	80.2U	80.2	3250	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	101U	101	3250	ug/Kg
95-95-4	2,4,5-Trichlorophenol	102U	102	3250	ug/Kg
88-06-2	2,4,6-Trichlorophenol	114U	114	3250	ug/Kg
120-83-2	2,4-Dichlorophenol	93.2U	93.2	3250	ug/Kg
105-67-9	2,4-Dimethylphenol	64.1U	64.1	3250	ug/Kg
51-28-5	2,4-Dinitrophenol	221U	221	3250	ug/Kg
121-14-2	2,4-Dinitrotoluene	66.1U	66.1	3250	ug/Kg
606-20-2	2,6-Dinitrotoluene	121U	121	3250	ug/Kg
91-58-7	2-Chloronaphthalene	103U	103	3250	ug/Kg
95-57-8	2-Chlorophenol	71.2U	71.2	3250	ug/Kg
91-57-6	2-Methylnaphthalene	46.8U	46.8	3250	ug/Kg
88-74-4	2-Nitroaniline	41.2U	41.2	16200	ug/Kg
88-75-5	2-Nitrophenol	116U	116	3250	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	311U	311	6490	ug/Kg
99-09-2	3-Nitroaniline	44.2U	44.2	16200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	175U	175	16200	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	103U	103	3250	ug/Kg
59-50-7	4-Chloro-3-methylphenol	73.0U	73.0	3250	ug/Kg
106-47-8	4-Chloroaniline	62.4U	62.4	3250	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	72.2U	72.2	3250	ug/Kg
100-01-6	4-Nitroaniline	41.8U	41.8	16200	ug/Kg
100-02-7	4-Nitrophenol	207U	207	16200	ug/Kg
83-32-9	Acenaphthene	99.3U	99.3	3250	ug/Kg
208-96-8	Acenaphthylene	66.4U	66.4	3250	ug/Kg
98-86-2	Acetophenone	96.9U	96.9	3250	ug/Kg
120-12-7	Anthracene	131J	66.8	3250	ug/Kg
1912-24-9	Atrazine (Aatrex)	68.3U	68.3	6490	ug/Kg
100-52-7	Benzaldehyde	315U	315	16200	ug/Kg
56-55-3	Benzo(a)anthracene	1290J	60.6	3250	ug/Kg
50-32-8	Benzo(a)pyrene	1710J	40.7	3250	ug/Kg
205-99-2	Benzo(b)fluoranthene	2610J	64.1	3250	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300J	49.1	3250	ug/Kg
207-08-9	Benzo(k)fluoranthene	806J	50.2	3250	ug/Kg
92-52-4	Biphenyl	48.0U	48.0	3250	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	56.7U	56.7	3250	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	126U	126	3250	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	71.1U	71.1	3250	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	740J	46.0	3250	ug/Kg
85-68-7	Butyl benzyl phthalate	64.8U	64.8	3250	ug/Kg
105-60-2	Caprolactam	144U	144	3250	ug/Kg
86-74-8	Carbazole	153J	62.8	3250	ug/Kg
218-01-9	Chrysene	1690J	70.3	3250	ug/Kg
53-70-3	Dibenz(a,h)anthracene	353J	46.6	3250	ug/Kg
132-64-9	Dibenzofuran	61.8U	61.8	3250	ug/Kg
84-66-2	Diethyl phthalate	120U	120	3250	ug/Kg
131-11-3	Dimethyl phthalate	50.6U	50.6	3250	ug/Kg
84-74-2	Di-n-butyl phthalate	62.8U	62.8	3250	ug/Kg
117-84-0	Di-n-octyl phthalate	43.0U	43.0	3250	ug/Kg
206-44-0	Fluoranthene	356J	52.8	3250	ug/Kg
86-73-7	Fluorene	58.5U	58.5	3250	ug/Kg
118-74-1	Hexachlorobenzene	126U	126	3250	ug/Kg
87-68-3	Hexachlorobutadiene	86.0U	86.0	3250	ug/Kg

Sample Results

AS-032415-SD-07	Collect Date	03/24/2015 12:20	GCAL ID	21503271512
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 02:00	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	689U	689	3250	ug/Kg
67-72-1	Hexachloroethane	154U	154	3250	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1460J	78.2	3250	ug/Kg
78-59-1	Isophorone	57.7U	57.7	3250	ug/Kg
1319-77-3MP	m,p-Cresol	122U	122	3250	ug/Kg
91-20-3	Naphthalene	101U	101	3250	ug/Kg
98-95-3	Nitrobenzene	169U	169	3250	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	142U	142	3250	ug/Kg
86-30-6	n-Nitrosodiphenylamine	68.7U	68.7	3250	ug/Kg
95-48-7	o-Cresol	100U	100	3250	ug/Kg
87-86-5	Pentachlorophenol	72.7U	72.7	16200	ug/Kg
85-01-8	Phenanthrene	853J	74.6	3250	ug/Kg
108-95-2	Phenol	89.5U	89.5	3250	ug/Kg
129-00-0	Pyrene	2070J	45.5	3250	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1640	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1640	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3280	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3280	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3280	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 20:59	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	809	100	400	ug/Kg
7440-39-3	Barium	59400	100	400	ug/Kg
7440-43-9	Cadmium	213J	100	400	ug/Kg
7440-47-3	Chromium	13400	100	400	ug/Kg
7439-92-1	Lead	25200	100	400	ug/Kg
7782-49-2	Selenium	100U	100	400	ug/Kg
7440-22-4	Silver	138J	100	400	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:48	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.012	0.0043	0.011	mg/kg

Sample Results

AS-032415-SD-08	Collect Date	03/24/2015 12:40	GCAL ID	21503271513
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	04/02/2015 20:11	JMC2	555511
CAS#	Parameter			Result	MDL	LOQ
95-94-3	1,2,4,5-Tetrachlorobenzene			80.7U	80.7	3270
58-90-2	2,3,4,6-Tetrachlorophenol			102U	102	3270
95-95-4	2,4,5-Trichlorophenol			103U	103	3270
88-06-2	2,4,6-Trichlorophenol			115U	115	3270
120-83-2	2,4-Dichlorophenol			93.9U	93.9	3270
105-67-9	2,4-Dimethylphenol			64.6U	64.6	3270
51-28-5	2,4-Dinitrophenol			223U	223	3270
121-14-2	2,4-Dinitrotoluene			66.5U	66.5	3270
606-20-2	2,6-Dinitrotoluene			122U	122	3270
91-58-7	2-Chloronaphthalene			104U	104	3270
95-57-8	2-Chlorophenol			71.7U	71.7	3270
91-57-6	2-Methylnaphthalene			47.1U	47.1	3270
88-74-4	2-Nitroaniline			41.5U	41.5	16300
88-75-5	2-Nitrophenol			117U	117	3270
91-94-1	3,3'-Dichlorobenzidine			313U	313	6530
99-09-2	3-Nitroaniline			44.5U	44.5	16300
534-52-1	4,6-Dinitro-2-methylphenol			176U	176	16300
101-55-3	4-Bromophenyl phenyl ether			104U	104	3270
59-50-7	4-Chloro-3-methylphenol			73.5U	73.5	3270
106-47-8	4-Chloroaniline			62.8U	62.8	3270
7005-72-3	4-Chlorophenyl phenyl ether			72.7U	72.7	3270
100-01-6	4-Nitroaniline			42.1U	42.1	16300
100-02-7	4-Nitrophenol			208U	208	16300
83-32-9	Acenaphthene			100.0U	100.0	3270
208-96-8	Acenaphthylene			66.8U	66.8	3270
98-86-2	Acetophenone			97.5U	97.5	3270
120-12-7	Anthracene			244J	67.2	3270
1912-24-9	Atrazine (Aatrex)			68.7U	68.7	6530
100-52-7	Benzaldehyde			317U	317	16300
56-55-3	Benzo(a)anthracene			4710	61.0	3270
50-32-8	Benzo(a)pyrene			6440	41.0	3270
205-99-2	Benzo(b)fluoranthene			8050	64.6	3270
191-24-2	Benzo(g,h,i)perylene			6210	49.4	3270
207-08-9	Benzo(k)fluoranthene			3250J	50.5	3270
92-52-4	Biphenyl			48.3U	48.3	3270
111-91-1	Bis(2-Chloroethoxy)methane			57.0U	57.0	3270
111-44-4	Bis(2-Chloroethyl)ether			127U	127	3270
108-60-1	Bis(2-Chloroisopropyl)ether			71.6U	71.6	3270
117-81-7	Bis(2-Ethylhexyl)phthalate			457J	46.3	3270
85-68-7	Butyl benzyl phthalate			65.2U	65.2	3270
105-60-2	Caprolactam			145U	145	3270
86-74-8	Carbazole			116J	63.2	3270
218-01-9	Chrysene			4680	70.8	3270
53-70-3	Dibenz(a,h)anthracene			1360J	46.9	3270
132-64-9	Dibenzofuran			62.2U	62.2	3270
84-66-2	Diethyl phthalate			121U	121	3270
131-11-3	Dimethyl phthalate			50.9U	50.9	3270
84-74-2	Di-n-butyl phthalate			115J	63.2	3270
117-84-0	Di-n-octyl phthalate			43.3U	43.3	3270
206-44-0	Fluoranthene			8920	53.2	3270
86-73-7	Fluorene			58.9U	58.9	3270
118-74-1	Hexachlorobenzene			127U	127	3270
87-68-3	Hexachlorobutadiene			86.5U	86.5	3270

Sample Results

AS-032415-SD-08	Collect Date	03/24/2015 12:40	GCAL ID	21503271513
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	04/02/2015 20:11	JMC2	555511

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	693U	693	3270	ug/Kg
67-72-1	Hexachloroethane	155U	155	3270	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	6410	78.7	3270	ug/Kg
78-59-1	Isophorone	58.1U	58.1	3270	ug/Kg
1319-77-3MP	m,p-Cresol	123U	123	3270	ug/Kg
91-20-3	Naphthalene	102U	102	3270	ug/Kg
98-95-3	Nitrobenzene	170U	170	3270	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	143U	143	3270	ug/Kg
86-30-6	n-Nitrosodiphenylamine	69.1U	69.1	3270	ug/Kg
95-48-7	o-Cresol	101U	101	3270	ug/Kg
87-86-5	Pentachlorophenol	73.2U	73.2	16300	ug/Kg
85-01-8	Phenanthrene	1350J	75.0	3270	ug/Kg
108-95-2	Phenol	90.1U	90.1	3270	ug/Kg
129-00-0	Pyrene	7930	45.8	3270	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1650	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1650	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1650	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3300	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3300	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3300	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 21:08	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	961	100	400	ug/Kg
7440-39-3	Barium	66900	100	400	ug/Kg
7440-43-9	Cadmium	374J	100	400	ug/Kg
7440-47-3	Chromium	9940	100	400	ug/Kg
7439-92-1	Lead	34300	100	400	ug/Kg
7782-49-2	Selenium	100U	100	400	ug/Kg
7440-22-4	Silver	113J	100	400	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:50	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.029	0.0047	0.012	mg/kg

Sample Results

AS-032415-SS-06	Collect Date	03/24/2015 13:52	GCAL ID	21503271514
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 02:33	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	80.2U	80.2	3250	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	101U	101	3250	ug/Kg
95-95-4	2,4,5-Trichlorophenol	102U	102	3250	ug/Kg
88-06-2	2,4,6-Trichlorophenol	114U	114	3250	ug/Kg
120-83-2	2,4-Dichlorophenol	93.2U	93.2	3250	ug/Kg
105-67-9	2,4-Dimethylphenol	64.1U	64.1	3250	ug/Kg
51-28-5	2,4-Dinitrophenol	221U	221	3250	ug/Kg
121-14-2	2,4-Dinitrotoluene	66.1U	66.1	3250	ug/Kg
606-20-2	2,6-Dinitrotoluene	121U	121	3250	ug/Kg
91-58-7	2-Chloronaphthalene	103U	103	3250	ug/Kg
95-57-8	2-Chlorophenol	71.2U	71.2	3250	ug/Kg
91-57-6	2-Methylnaphthalene	1350J	46.8	3250	ug/Kg
88-74-4	2-Nitroaniline	41.2U	41.2	16200	ug/Kg
88-75-5	2-Nitrophenol	116U	116	3250	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	311U	311	6490	ug/Kg
99-09-2	3-Nitroaniline	44.2U	44.2	16200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	175U	175	16200	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	103U	103	3250	ug/Kg
59-50-7	4-Chloro-3-methylphenol	73.0U	73.0	3250	ug/Kg
106-47-8	4-Chloroaniline	62.4U	62.4	3250	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	72.2U	72.2	3250	ug/Kg
100-01-6	4-Nitroaniline	41.8U	41.8	16200	ug/Kg
100-02-7	4-Nitrophenol	207U	207	16200	ug/Kg
83-32-9	Acenaphthene	5700	99.3	3250	ug/Kg
208-96-8	Acenaphthylene	66.4U	66.4	3250	ug/Kg
98-86-2	Acetophenone	96.9U	96.9	3250	ug/Kg
120-12-7	Anthracene	15500	66.8	3250	ug/Kg
1912-24-9	Atrazine (Aatrex)	68.3U	68.3	6490	ug/Kg
100-52-7	Benzaldehyde	315U	315	16200	ug/Kg
56-55-3	Benzo(a)anthracene	22500	60.6	3250	ug/Kg
50-32-8	Benzo(a)pyrene	20400	40.7	3250	ug/Kg
205-99-2	Benzo(b)fluoranthene	24400	64.1	3250	ug/Kg
191-24-2	Benzo(g,h,i)perylene	9650	49.1	3250	ug/Kg
207-08-9	Benzo(k)fluoranthene	8970	50.2	3250	ug/Kg
92-52-4	Biphenyl	48.0U	48.0	3250	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	56.7U	56.7	3250	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	126U	126	3250	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	71.1U	71.1	3250	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	46.0U	46.0	3250	ug/Kg
85-68-7	Butyl benzyl phthalate	64.8U	64.8	3250	ug/Kg
105-60-2	Caprolactam	144U	144	3250	ug/Kg
86-74-8	Carbazole	5200	62.8	3250	ug/Kg
218-01-9	Chrysene	20000	70.3	3250	ug/Kg
53-70-3	Dibenz(a,h)anthracene	3080J	46.6	3250	ug/Kg
132-64-9	Dibenzofuran	4000	61.8	3250	ug/Kg
84-66-2	Diethyl phthalate	120U	120	3250	ug/Kg
131-11-3	Dimethyl phthalate	50.6U	50.6	3250	ug/Kg
84-74-2	Di-n-butyl phthalate	62.8U	62.8	3250	ug/Kg
117-84-0	Di-n-octyl phthalate	43.0U	43.0	3250	ug/Kg
206-44-0	Fluoranthene	64300	52.8	3250	ug/Kg
86-73-7	Fluorene	7480	58.5	3250	ug/Kg
118-74-1	Hexachlorobenzene	126U	126	3250	ug/Kg
87-68-3	Hexachlorobutadiene	86.0U	86.0	3250	ug/Kg

Sample Results

AS-032415-SS-06	Collect Date	03/24/2015 13:52	GCAL ID	21503271514
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	10	03/31/2015 02:33	DSL	555308

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	689U	689	3250	ug/Kg
67-72-1	Hexachloroethane	154U	154	3250	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	11900	78.2	3250	ug/Kg
78-59-1	Isophorone	57.7U	57.7	3250	ug/Kg
1319-77-3MP	m,p-Cresol	122U	122	3250	ug/Kg
91-20-3	Naphthalene	2900J	101	3250	ug/Kg
98-95-3	Nitrobenzene	169U	169	3250	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	142U	142	3250	ug/Kg
86-30-6	n-Nitrosodiphenylamine	68.7U	68.7	3250	ug/Kg
95-48-7	o-Cresol	100U	100	3250	ug/Kg
87-86-5	Pentachlorophenol	72.7U	72.7	16200	ug/Kg
85-01-8	Phenanthrene	44400	74.6	3250	ug/Kg
108-95-2	Phenol	89.5U	89.5	3250	ug/Kg
129-00-0	Pyrene	34600	45.5	3250	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1640	Diluted Out	ug/Kg	0*	37 - 122
321-60-8	2-Fluorobiphenyl	1640	Diluted Out	ug/Kg	0*	44 - 115
1718-51-0	Terphenyl-d14	1640	Diluted Out	ug/Kg	0*	54 - 127
4165-62-2	Phenol-d5	3280	Diluted Out	ug/Kg	0*	33 - 122
367-12-4	2-Fluorophenol	3280	Diluted Out	ug/Kg	0*	35 - 115
118-79-6	2,4,6-Tribromophenol	3280	Diluted Out	ug/Kg	0*	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 21:36	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	990	100	400	ug/Kg
7440-39-3	Barium	64500	100	400	ug/Kg
7440-43-9	Cadmium	144J	100	400	ug/Kg
7440-47-3	Chromium	3760	100	400	ug/Kg
7439-92-1	Lead	43500	100	400	ug/Kg
7782-49-2	Selenium	100U	100	400	ug/Kg
7440-22-4	Silver	100U	100	400	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:52	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.023	0.0042	0.011	mg/kg

Sample Results

AS-032415-SS-07	Collect Date	03/24/2015 14:05	GCAL ID	21503271515
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	03/31/2015 19:39	TKH2	555333

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	8.15U	8.15	330	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	10.3U	10.3	330	ug/Kg
95-95-4	2,4,5-Trichlorophenol	10.4U	10.4	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	11.6U	11.6	330	ug/Kg
120-83-2	2,4-Dichlorophenol	9.48U	9.48	330	ug/Kg
105-67-9	2,4-Dimethylphenol	6.52U	6.52	330	ug/Kg
51-28-5	2,4-Dinitrophenol	22.5U	22.5	330	ug/Kg
121-14-2	2,4-Dinitrotoluene	6.72U	6.72	330	ug/Kg
606-20-2	2,6-Dinitrotoluene	12.3U	12.3	330	ug/Kg
91-58-7	2-Chloronaphthalene	10.5U	10.5	330	ug/Kg
95-57-8	2-Chlorophenol	7.24U	7.24	330	ug/Kg
91-57-6	2-Methylnaphthalene	4.76U	4.76	330	ug/Kg
88-74-4	2-Nitroaniline	4.19U	4.19	1650	ug/Kg
88-75-5	2-Nitrophenol	11.8U	11.8	330	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	31.6U	31.6	660	ug/Kg
99-09-2	3-Nitroaniline	4.49U	4.49	1650	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	17.8U	17.8	1650	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	10.5U	10.5	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	7.42U	7.42	330	ug/Kg
106-47-8	4-Chloroaniline	6.34U	6.34	330	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	7.34U	7.34	330	ug/Kg
100-01-6	4-Nitroaniline	4.25U	4.25	1650	ug/Kg
100-02-7	4-Nitrophenol	21.0U	21.0	1650	ug/Kg
83-32-9	Acenaphthene	10.1U	10.1	330	ug/Kg
208-96-8	Acenaphthylene	6.75U	6.75	330	ug/Kg
98-86-2	Acetophenone	9.85U	9.85	330	ug/Kg
120-12-7	Anthracene	6.79U	6.79	330	ug/Kg
1912-24-9	Atrazine (Aatrex)	6.94U	6.94	660	ug/Kg
100-52-7	Benzaldehyde	32.0U	32.0	1650	ug/Kg
56-55-3	Benzo(a)anthracene	42.5J	6.16	330	ug/Kg
50-32-8	Benzo(a)pyrene	66.8J	4.14	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	93.3J	6.52	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	85.5J	4.99	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	29.2J	5.10	330	ug/Kg
92-52-4	Biphenyl	4.88U	4.88	330	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	5.76U	5.76	330	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	12.8U	12.8	330	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	7.23U	7.23	330	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	22.3J	4.68	330	ug/Kg
85-68-7	Butyl benzyl phthalate	6.59U	6.59	330	ug/Kg
105-60-2	Caprolactam	14.6U	14.6	330	ug/Kg
86-74-8	Carbazole	6.38U	6.38	330	ug/Kg
218-01-9	Chrysene	63.0J	7.15	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	17.8J	4.74	330	ug/Kg
132-64-9	Dibenzofuran	6.28U	6.28	330	ug/Kg
84-66-2	Diethyl phthalate	12.2U	12.2	330	ug/Kg
131-11-3	Dimethyl phthalate	5.14U	5.14	330	ug/Kg
84-74-2	Di-n-butyl phthalate	9.11J	6.38	330	ug/Kg
117-84-0	Di-n-octyl phthalate	4.37U	4.37	330	ug/Kg
206-44-0	Fluoranthene	84.4J	5.37	330	ug/Kg
86-73-7	Fluorene	5.95U	5.95	330	ug/Kg
118-74-1	Hexachlorobenzene	12.8U	12.8	330	ug/Kg
87-68-3	Hexachlorobutadiene	8.74U	8.74	330	ug/Kg

Sample Results

AS-032415-SS-07	Collect Date	03/24/2015 14:05	GCAL ID	21503271515
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	03/31/2015 19:39	TKH2	555333

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	70.0U	70.0	330	ug/Kg
67-72-1	Hexachloroethane	15.7U	15.7	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	81.5J	7.95	330	ug/Kg
78-59-1	Isophorone	5.87U	5.87	330	ug/Kg
1319-77-3MP	m,p-Cresol	12.4U	12.4	330	ug/Kg
91-20-3	Naphthalene	10.3U	10.3	330	ug/Kg
98-95-3	Nitrobenzene	17.2U	17.2	330	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	14.4U	14.4	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	6.98U	6.98	330	ug/Kg
95-48-7	o-Cresol	10.2U	10.2	330	ug/Kg
87-86-5	Pentachlorophenol	7.39U	7.39	1650	ug/Kg
85-01-8	Phenanthrene	20.6J	7.58	330	ug/Kg
108-95-2	Phenol	9.10U	9.10	330	ug/Kg
129-00-0	Pyrene	79.9J	4.63	330	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1010	ug/Kg	61	37 - 122
321-60-8	2-Fluorobiphenyl	1670	1050	ug/Kg	63	44 - 115
1718-51-0	Terphenyl-d14	1670	1190	ug/Kg	71	54 - 127
4165-62-2	Phenol-d5	3330	2290	ug/Kg	69	33 - 122
367-12-4	2-Fluorophenol	3330	2100	ug/Kg	63	35 - 115
118-79-6	2,4,6-Tribromophenol	3330	2010	ug/Kg	60	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 21:46	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	816	97.7	391	ug/Kg
7440-39-3	Barium	81100	97.7	391	ug/Kg
7440-43-9	Cadmium	127J	97.7	391	ug/Kg
7440-47-3	Chromium	11400	97.7	391	ug/Kg
7439-92-1	Lead	38700	97.7	391	ug/Kg
7782-49-2	Selenium	97.7U	97.7	391	ug/Kg
7440-22-4	Silver	97.7U	97.7	391	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:54	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.027	0.0045	0.011	mg/kg

Sample Results

AS-032415-SS-08	Collect Date	03/24/2015 15:11	GCAL ID	21503271516
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	04/02/2015 20:44	JMC2	555511

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	8.15U	8.15	330	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	10.3U	10.3	330	ug/Kg
95-95-4	2,4,5-Trichlorophenol	10.4U	10.4	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	11.6U	11.6	330	ug/Kg
120-83-2	2,4-Dichlorophenol	9.48U	9.48	330	ug/Kg
105-67-9	2,4-Dimethylphenol	6.52U	6.52	330	ug/Kg
51-28-5	2,4-Dinitrophenol	22.5U	22.5	330	ug/Kg
121-14-2	2,4-Dinitrotoluene	6.72U	6.72	330	ug/Kg
606-20-2	2,6-Dinitrotoluene	12.3U	12.3	330	ug/Kg
91-58-7	2-Chloronaphthalene	10.5U	10.5	330	ug/Kg
95-57-8	2-Chlorophenol	7.24U	7.24	330	ug/Kg
91-57-6	2-Methylnaphthalene	4.76U	4.76	330	ug/Kg
88-74-4	2-Nitroaniline	4.19U	4.19	1650	ug/Kg
88-75-5	2-Nitrophenol	11.8U	11.8	330	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	31.6U	31.6	660	ug/Kg
99-09-2	3-Nitroaniline	4.49U	4.49	1650	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	17.8U	17.8	1650	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	10.5U	10.5	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	7.42U	7.42	330	ug/Kg
106-47-8	4-Chloroaniline	6.34U	6.34	330	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	7.34U	7.34	330	ug/Kg
100-01-6	4-Nitroaniline	4.25U	4.25	1650	ug/Kg
100-02-7	4-Nitrophenol	21.0U	21.0	1650	ug/Kg
83-32-9	Acenaphthene	10.1U	10.1	330	ug/Kg
208-96-8	Acenaphthylene	6.75U	6.75	330	ug/Kg
98-86-2	Acetophenone	9.85U	9.85	330	ug/Kg
120-12-7	Anthracene	10.9J	6.79	330	ug/Kg
1912-24-9	Atrazine (Aatrex)	6.94U	6.94	660	ug/Kg
100-52-7	Benzaldehyde	32.0U	32.0	1650	ug/Kg
56-55-3	Benzo(a)anthracene	108J	6.16	330	ug/Kg
50-32-8	Benzo(a)pyrene	144J	4.14	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	221J	6.52	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	158J	4.99	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	63.1J	5.10	330	ug/Kg
92-52-4	Biphenyl	4.88U	4.88	330	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	5.76U	5.76	330	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	12.8U	12.8	330	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	7.23U	7.23	330	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	4.68U	4.68	330	ug/Kg
85-68-7	Butyl benzyl phthalate	6.59U	6.59	330	ug/Kg
105-60-2	Caprolactam	14.6U	14.6	330	ug/Kg
86-74-8	Carbazole	6.97J	6.38	330	ug/Kg
218-01-9	Chrysene	148J	7.15	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	24.7J	4.74	330	ug/Kg
132-64-9	Dibenzofuran	6.28U	6.28	330	ug/Kg
84-66-2	Diethyl phthalate	12.2U	12.2	330	ug/Kg
131-11-3	Dimethyl phthalate	5.14U	5.14	330	ug/Kg
84-74-2	Di-n-butyl phthalate	9.88J	6.38	330	ug/Kg
117-84-0	Di-n-octyl phthalate	4.37U	4.37	330	ug/Kg
206-44-0	Fluoranthene	220J	5.37	330	ug/Kg
86-73-7	Fluorene	5.95U	5.95	330	ug/Kg
118-74-1	Hexachlorobenzene	12.8U	12.8	330	ug/Kg
87-68-3	Hexachlorobutadiene	8.74U	8.74	330	ug/Kg

Sample Results

AS-032415-SS-08	Collect Date	03/24/2015 15:11	GCAL ID	21503271516
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	04/02/2015 20:44	JMC2	555511
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			70.0U	70.0	330
67-72-1	Hexachloroethane			15.7U	15.7	330
193-39-5	Indeno(1,2,3-cd)pyrene			152J	7.95	330
78-59-1	Isophorone			5.87U	5.87	330
1319-77-3MP	m,p-Cresol			12.4U	12.4	330
91-20-3	Naphthalene			10.3U	10.3	330
98-95-3	Nitrobenzene			17.2U	17.2	330
621-64-7	n-Nitrosodi-n-propylamine			14.4U	14.4	330
86-30-6	n-Nitrosodiphenylamine			6.98U	6.98	330
95-48-7	o-Cresol			10.2U	10.2	330
87-86-5	Pentachlorophenol			7.39U	7.39	1650
85-01-8	Phenanthrene			54.6J	7.58	330
108-95-2	Phenol			9.10U	9.10	330
129-00-0	Pyrene			202J	4.63	330
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1230	ug/Kg	74	37 - 122
321-60-8	2-Fluorobiphenyl	1670	1290	ug/Kg	77	44 - 115
1718-51-0	Terphenyl-d14	1670	1580	ug/Kg	95	54 - 127
4165-62-2	Phenol-d5	3330	2710	ug/Kg	81	33 - 122
367-12-4	2-Fluorophenol	3330	2490	ug/Kg	75	35 - 115
118-79-6	2,4,6-Tribromophenol	3330	2490	ug/Kg	75	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 21:55	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			617	100	400
7440-39-3	Barium			58900	100	400
7440-43-9	Cadmium			150J	100	400
7440-47-3	Chromium			20500	100	400
7439-92-1	Lead			64200	100	400
7782-49-2	Selenium			100U	100	400
7440-22-4	Silver			100U	100	400

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:56	JBW2	555118
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.018	0.0040	0.010

Sample Results

AS-032415-SS-08 MS	Collect Date	03/24/2015 15:11	GCAL ID	21503271517
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	04/02/2015 21:01	JMC2	555511

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	1280	8.12	329	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1280	10.3	329	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1320	10.4	329	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1360	11.6	329	ug/Kg
120-83-2	2,4-Dichlorophenol	1190	9.45	329	ug/Kg
105-67-9	2,4-Dimethylphenol	1060	6.50	329	ug/Kg
51-28-5	2,4-Dinitrophenol	1230	22.4	329	ug/Kg
121-14-2	2,4-Dinitrotoluene	1370	6.70	329	ug/Kg
606-20-2	2,6-Dinitrotoluene	1350	12.3	329	ug/Kg
91-58-7	2-Chloronaphthalene	1220	10.5	329	ug/Kg
95-57-8	2-Chlorophenol	1150	7.22	329	ug/Kg
91-57-6	2-Methylnaphthalene	1110	4.74	329	ug/Kg
88-74-4	2-Nitroaniline	1250J	4.18	1640	ug/Kg
88-75-5	2-Nitrophenol	1200	11.8	329	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	31.5U	31.5	658	ug/Kg
99-09-2	3-Nitroaniline	783J	4.48	1640	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1310J	17.7	1640	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	1350	10.5	329	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1230	7.40	329	ug/Kg
106-47-8	4-Chloroaniline	595	6.32	329	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	1280	7.32	329	ug/Kg
100-01-6	4-Nitroaniline	987J	4.24	1640	ug/Kg
100-02-7	4-Nitrophenol	1360J	20.9	1640	ug/Kg
83-32-9	Acenaphthene	1240	10.1	329	ug/Kg
208-96-8	Acenaphthylene	1240	6.73	329	ug/Kg
98-86-2	Acetophenone	1110	9.82	329	ug/Kg
120-12-7	Anthracene	1360	6.77	329	ug/Kg
1912-24-9	Atrazine (Aatrex)	4490	6.92	658	ug/Kg
100-52-7	Benzaldehyde	1860	31.9	1640	ug/Kg
56-55-3	Benzo(a)anthracene	1410	6.14	329	ug/Kg
50-32-8	Benzo(a)pyrene	1490	4.13	329	ug/Kg
205-99-2	Benzo(b)fluoranthene	1380	6.50	329	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1820	4.97	329	ug/Kg
207-08-9	Benzo(k)fluoranthene	1370	5.08	329	ug/Kg
92-52-4	Biphenyl	1110	4.86	329	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	1210	5.74	329	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	1100	12.8	329	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	1010	7.21	329	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	1510	4.66	329	ug/Kg
85-68-7	Butyl benzyl phthalate	1450	6.57	329	ug/Kg
105-60-2	Caprolactam	1290	14.6	329	ug/Kg
86-74-8	Carbazole	1320	6.36	329	ug/Kg
218-01-9	Chrysene	1450	7.13	329	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1650	4.72	329	ug/Kg
132-64-9	Dibenzofuran	1280	6.26	329	ug/Kg
84-66-2	Diethyl phthalate	1290	12.2	329	ug/Kg
131-11-3	Dimethyl phthalate	1310	5.12	329	ug/Kg
84-74-2	Di-n-butyl phthalate	1440	6.36	329	ug/Kg
117-84-0	Di-n-octyl phthalate	1360	4.36	329	ug/Kg
206-44-0	Fluoranthene	1520	5.35	329	ug/Kg
86-73-7	Fluorene	1300	5.93	329	ug/Kg
118-74-1	Hexachlorobenzene	1380	12.8	329	ug/Kg
87-68-3	Hexachlorobutadiene	948	8.71	329	ug/Kg

Sample Results

AS-032415-SS-08 MS	Collect Date	03/24/2015 15:11	GCAL ID	21503271517
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	04/02/2015 21:01	JMC2	555511

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	824	69.8	329	ug/Kg
67-72-1	Hexachloroethane	680	15.6	329	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1680	7.92	329	ug/Kg
78-59-1	Isophorone	1260	5.85	329	ug/Kg
1319-77-3MP	m,p-Cresol	1130	12.4	329	ug/Kg
91-20-3	Naphthalene	1080	10.3	329	ug/Kg
98-95-3	Nitrobenzene	1210	17.1	329	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	1180	14.4	329	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1280	6.96	329	ug/Kg
95-48-7	o-Cresol	1170	10.2	329	ug/Kg
87-86-5	Pentachlorophenol	1590J	7.37	1640	ug/Kg
85-01-8	Phenanthrene	1400	7.55	329	ug/Kg
108-95-2	Phenol	1130	9.07	329	ug/Kg
129-00-0	Pyrene	1610	4.61	329	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1660	1160	ug/Kg	70	37 - 122
321-60-8	2-Fluorobiphenyl	1660	1220	ug/Kg	73	44 - 115
1718-51-0	Terphenyl-d14	1660	1530	ug/Kg	92	54 - 127
4165-62-2	Phenol-d5	3320	2450	ug/Kg	74	33 - 122
367-12-4	2-Fluorophenol	3320	2310	ug/Kg	70	35 - 115
118-79-6	2,4,6-Tribromophenol	3320	2520	ug/Kg	76	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 22:04	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1380	100	400	ug/Kg
7440-39-3	Barium	64600	100	400	ug/Kg
7440-43-9	Cadmium	2070	100	400	ug/Kg
7440-47-3	Chromium	28300	100	400	ug/Kg
7439-92-1	Lead	74000	100	400	ug/Kg
7782-49-2	Selenium	100U	100	400	ug/Kg
7440-22-4	Silver	1750	100	400	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 11:58	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.26	0.0040	0.010	mg/kg

Sample Results

AS-032415-SS-08 MSD	Collect Date	03/24/2015 15:11	GCAL ID	21503271518
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	04/02/2015 21:18	JMC2	555511

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	1200	8.15	330	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1310	10.3	330	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1350	10.4	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1380	11.6	330	ug/Kg
120-83-2	2,4-Dichlorophenol	1130	9.48	330	ug/Kg
105-67-9	2,4-Dimethylphenol	993	6.52	330	ug/Kg
51-28-5	2,4-Dinitrophenol	1200	22.5	330	ug/Kg
121-14-2	2,4-Dinitrotoluene	1380	6.72	330	ug/Kg
606-20-2	2,6-Dinitrotoluene	1380	12.3	330	ug/Kg
91-58-7	2-Chloronaphthalene	1190	10.5	330	ug/Kg
95-57-8	2-Chlorophenol	1090	7.24	330	ug/Kg
91-57-6	2-Methylnaphthalene	1040	4.76	330	ug/Kg
88-74-4	2-Nitroaniline	1280J	4.19	1650	ug/Kg
88-75-5	2-Nitrophenol	1150	11.8	330	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	31.6U	31.6	660	ug/Kg
99-09-2	3-Nitroaniline	853J	4.49	1650	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1250J	17.8	1650	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	1310	10.5	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1230	7.42	330	ug/Kg
106-47-8	4-Chloroaniline	530	6.34	330	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	1250	7.34	330	ug/Kg
100-01-6	4-Nitroaniline	1050J	4.25	1650	ug/Kg
100-02-7	4-Nitrophenol	1390J	21.0	1650	ug/Kg
83-32-9	Acenaphthene	1200	10.1	330	ug/Kg
208-96-8	Acenaphthylene	1230	6.75	330	ug/Kg
98-86-2	Acetophenone	1030	9.85	330	ug/Kg
120-12-7	Anthracene	1360	6.79	330	ug/Kg
1912-24-9	Atrazine (Aatrex)	4510	6.94	660	ug/Kg
100-52-7	Benzaldehyde	1890	32.0	1650	ug/Kg
56-55-3	Benzo(a)anthracene	1440	6.16	330	ug/Kg
50-32-8	Benzo(a)pyrene	1480	4.14	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400	6.52	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1840	4.99	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	1360	5.10	330	ug/Kg
92-52-4	Biphenyl	1040	4.88	330	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	1170	5.76	330	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	1040	12.8	330	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	984	7.23	330	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	1490	4.68	330	ug/Kg
85-68-7	Butyl benzyl phthalate	1410	6.59	330	ug/Kg
105-60-2	Caprolactam	1300	14.6	330	ug/Kg
86-74-8	Carbazole	1340	6.38	330	ug/Kg
218-01-9	Chrysene	1460	7.15	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1690	4.74	330	ug/Kg
132-64-9	Dibenzofuran	1240	6.28	330	ug/Kg
84-66-2	Diethyl phthalate	1330	12.2	330	ug/Kg
131-11-3	Dimethyl phthalate	1330	5.14	330	ug/Kg
84-74-2	Di-n-butyl phthalate	1430	6.38	330	ug/Kg
117-84-0	Di-n-octyl phthalate	1390	4.37	330	ug/Kg
206-44-0	Fluoranthene	1570	5.37	330	ug/Kg
86-73-7	Fluorene	1300	5.95	330	ug/Kg
118-74-1	Hexachlorobenzene	1340	12.8	330	ug/Kg
87-68-3	Hexachlorobutadiene	921	8.74	330	ug/Kg

Sample Results

AS-032415-SS-08 MSD	Collect Date	03/24/2015 15:11	GCAL ID	21503271518
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	04/02/2015 21:18	JMC2	555511

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	795	70.0	330	ug/Kg
67-72-1	Hexachloroethane	674	15.7	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1710	7.95	330	ug/Kg
78-59-1	Isophorone	1190	5.87	330	ug/Kg
1319-77-3MP	m,p-Cresol	1070	12.4	330	ug/Kg
91-20-3	Naphthalene	1020	10.3	330	ug/Kg
98-95-3	Nitrobenzene	1150	17.2	330	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	1120	14.4	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1270	6.98	330	ug/Kg
95-48-7	o-Cresol	1100	10.2	330	ug/Kg
87-86-5	Pentachlorophenol	1550J	7.39	1650	ug/Kg
85-01-8	Phenanthrene	1390	7.58	330	ug/Kg
108-95-2	Phenol	1100	9.10	330	ug/Kg
129-00-0	Pyrene	1550	4.63	330	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1150	ug/Kg	69	37 - 122
321-60-8	2-Fluorobiphenyl	1670	1260	ug/Kg	76	44 - 115
1718-51-0	Terphenyl-d14	1670	1540	ug/Kg	92	54 - 127
4165-62-2	Phenol-d5	3330	2420	ug/Kg	73	33 - 122
367-12-4	2-Fluorophenol	3330	2310	ug/Kg	69	35 - 115
118-79-6	2,4,6-Tribromophenol	3330	2730	ug/Kg	82	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 22:14	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1450	100	400	ug/Kg
7440-39-3	Barium	68600	100	400	ug/Kg
7440-43-9	Cadmium	2180	100	400	ug/Kg
7440-47-3	Chromium	28400	100	400	ug/Kg
7439-92-1	Lead	78000	100	400	ug/Kg
7782-49-2	Selenium	100U	100	400	ug/Kg
7440-22-4	Silver	1840	100	400	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 12:05	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.26	0.0040	0.010	mg/kg

Sample Results

AS-032415-SW-01	Collect Date	03/24/2015 14:30	GCAL ID	21503271519
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/28/2015 14:30	555105	EPA 3510C	1	03/30/2015 13:16	DSL	555241

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	0.428U	0.428	21.1	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.180U	0.180	21.1	ug/L
95-95-4	2,4,5-Trichlorophenol	0.283U	0.283	10.5	ug/L
88-06-2	2,4,6-Trichlorophenol	0.341U	0.341	10.5	ug/L
120-83-2	2,4-Dichlorophenol	0.403U	0.403	10.5	ug/L
105-67-9	2,4-Dimethylphenol	0.394U	0.394	10.5	ug/L
51-28-5	2,4-Dinitrophenol	1.43U	1.43	10.5	ug/L
121-14-2	2,4-Dinitrotoluene	0.298U	0.298	10.5	ug/L
606-20-2	2,6-Dinitrotoluene	0.259U	0.259	10.5	ug/L
91-58-7	2-Chloronaphthalene	0.412U	0.412	10.5	ug/L
95-57-8	2-Chlorophenol	0.325U	0.325	10.5	ug/L
91-57-6	2-Methylnaphthalene	0.494U	0.494	10.5	ug/L
88-74-4	2-Nitroaniline	0.162U	0.162	10.5	ug/L
88-75-5	2-Nitrophenol	0.481U	0.481	10.5	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.128U	0.128	10.5	ug/L
99-09-2	3-Nitroaniline	0.320U	0.320	10.5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.13U	1.13	10.5	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.475U	0.475	10.5	ug/L
59-50-7	4-Chloro-3-methylphenol	0.349U	0.349	10.5	ug/L
106-47-8	4-Chloroaniline	0.306U	0.306	10.5	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.419U	0.419	10.5	ug/L
100-01-6	4-Nitroaniline	0.345U	0.345	10.5	ug/L
100-02-7	4-Nitrophenol	1.23U	1.23	10.5	ug/L
83-32-9	Acenaphthene	1.33J	0.384	10.5	ug/L
208-96-8	Acenaphthylene	0.388U	0.388	10.5	ug/L
98-86-2	Acetophenone	0.455U	0.455	10.5	ug/L
120-12-7	Anthracene	0.226U	0.226	10.5	ug/L
1912-24-9	Atrazine (Aatrex)	0.349U	0.349	52.6	ug/L
100-52-7	Benzaldehyde	1.14U	1.14	52.6	ug/L
56-55-3	Benzo(a)anthracene	11.8	0.259	10.5	ug/L
50-32-8	Benzo(a)pyrene	10.6	0.179	10.5	ug/L
205-99-2	Benzo(b)fluoranthene	16.8	0.195	10.5	ug/L
191-24-2	Benzo(g,h,i)perylene	2.76J	0.208	10.5	ug/L
207-08-9	Benzo(k)fluoranthene	6.25J	0.289	10.5	ug/L
92-52-4	Biphenyl	1.40J	0.519	10.5	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.426U	0.426	10.5	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.444U	0.444	10.5	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.427U	0.427	10.5	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.196U	0.196	10.5	ug/L
85-68-7	Butyl benzyl phthalate	0.224U	0.224	10.5	ug/L
105-60-2	Caprolactam	1.09U	1.09	10.5	ug/L
86-74-8	Carbazole	2.46J	0.278	10.5	ug/L
218-01-9	Chrysene	13.9	0.136	10.5	ug/L
53-70-3	Dibenz(a,h)anthracene	3.54J	0.225	10.5	ug/L
132-64-9	Dibenzofuran	1.08J	0.391	10.5	ug/L
84-66-2	Diethyl phthalate	0.276U	0.276	10.5	ug/L
131-11-3	Dimethyl phthalate	0.354U	0.354	10.5	ug/L
84-74-2	Di-n-butyl phthalate	0.276U	0.276	10.5	ug/L
117-84-0	Di-n-octyl phthalate	0.129U	0.129	10.5	ug/L
206-44-0	Fluoranthene	60.8	0.247	10.5	ug/L
86-73-7	Fluorene	1.96J	0.377	10.5	ug/L
118-74-1	Hexachlorobenzene	0.525U	0.525	10.5	ug/L
87-68-3	Hexachlorobutadiene	0.516U	0.516	10.5	ug/L

Sample Results

AS-032415-SW-01	Collect Date	03/24/2015 14:30	GCAL ID	21503271519
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/28/2015 14:30	555105	EPA 3510C	1	03/30/2015 13:16	DSL	555241
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			1.52U	1.52	10.5
67-72-1	Hexachloroethane			0.501U	0.501	10.5
193-39-5	Indeno(1,2,3-cd)pyrene			8.71J	0.167	10.5
78-59-1	Isophorone			0.387U	0.387	10.5
1319-77-3MP	m,p-Cresol			0.186U	0.186	10.5
91-20-3	Naphthalene			0.491U	0.491	10.5
98-95-3	Nitrobenzene			0.401U	0.401	10.5
621-64-7	n-Nitrosodi-n-propylamine			0.439U	0.439	10.5
86-30-6	n-Nitrosodiphenylamine			0.353U	0.353	10.5
95-48-7	o-Cresol			0.266U	0.266	10.5
87-86-5	Pentachlorophenol			0.303U	0.303	10.5
85-01-8	Phenanthrene			12.6	0.199	10.5
108-95-2	Phenol			0.201U	0.201	10.5
129-00-0	Pyrene			0.427U	0.427	10.5
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	52.60	38.9	ug/L	74	44 - 120
321-60-8	2-Fluorobiphenyl	52.60	38.8	ug/L	74	44 - 119
1718-51-0	Terphenyl-d14	52.60	40.9	ug/L	78	50 - 134
4165-62-2	Phenol-d5	105	40.4	ug/L	38	10 - 120
367-12-4	2-Fluorophenol	105	53.9	ug/L	51	19 - 119
118-79-6	2,4,6-Tribromophenol	105	94	ug/L	89	43 - 140

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:00	555082	EPA 3010A	1	03/28/2015 15:23	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			0.45J	0.25	1.00
7440-39-3	Barium			26.9	0.25	1.00
7440-43-9	Cadmium			0.25U	0.25	1.00
7440-47-3	Chromium			0.81J	0.25	1.00
7439-92-1	Lead			1.53	0.25	1.00
7782-49-2	Selenium			0.25U	0.25	1.00
7440-22-4	Silver			0.25U	0.25	1.00

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 17:40	555083	EPA 7470A	1	03/28/2015 09:34	JBW2	555115
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.000043U	0.000043	0.00020

Sample Results

AS-032415-EQ-01	Collect Date	03/24/2015 14:45	GCAL ID	21503271520
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/28/2015 14:30	555105	EPA 3510C	1	03/30/2015 13:32	TKH2	555241

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	0.479U	0.479	23.5	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.201U	0.201	23.5	ug/L
95-95-4	2,4,5-Trichlorophenol	0.316U	0.316	11.8	ug/L
88-06-2	2,4,6-Trichlorophenol	0.381U	0.381	11.8	ug/L
120-83-2	2,4-Dichlorophenol	0.451U	0.451	11.8	ug/L
105-67-9	2,4-Dimethylphenol	0.440U	0.440	11.8	ug/L
51-28-5	2,4-Dinitrophenol	1.60U	1.60	11.8	ug/L
121-14-2	2,4-Dinitrotoluene	0.333U	0.333	11.8	ug/L
606-20-2	2,6-Dinitrotoluene	0.289U	0.289	11.8	ug/L
91-58-7	2-Chloronaphthalene	0.460U	0.460	11.8	ug/L
95-57-8	2-Chlorophenol	0.364U	0.364	11.8	ug/L
91-57-6	2-Methylnaphthalene	0.552U	0.552	11.8	ug/L
88-74-4	2-Nitroaniline	0.181U	0.181	11.8	ug/L
88-75-5	2-Nitrophenol	0.538U	0.538	11.8	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.144U	0.144	11.8	ug/L
99-09-2	3-Nitroaniline	0.358U	0.358	11.8	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.26U	1.26	11.8	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.531U	0.531	11.8	ug/L
59-50-7	4-Chloro-3-methylphenol	0.391U	0.391	11.8	ug/L
106-47-8	4-Chloroaniline	0.342U	0.342	11.8	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.468U	0.468	11.8	ug/L
100-01-6	4-Nitroaniline	0.386U	0.386	11.8	ug/L
100-02-7	4-Nitrophenol	1.38U	1.38	11.8	ug/L
83-32-9	Acenaphthene	0.429U	0.429	11.8	ug/L
208-96-8	Acenaphthylene	0.434U	0.434	11.8	ug/L
98-86-2	Acetophenone	0.508U	0.508	11.8	ug/L
120-12-7	Anthracene	0.253U	0.253	11.8	ug/L
1912-24-9	Atrazine (Aatrex)	0.391U	0.391	58.8	ug/L
100-52-7	Benzaldehyde	1.27U	1.27	58.8	ug/L
56-55-3	Benzo(a)anthracene	0.289U	0.289	11.8	ug/L
50-32-8	Benzo(a)pyrene	0.200U	0.200	11.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.218U	0.218	11.8	ug/L
191-24-2	Benzo(g,h,i)perylene	0.233U	0.233	11.8	ug/L
207-08-9	Benzo(k)fluoranthene	0.324U	0.324	11.8	ug/L
92-52-4	Biphenyl	0.580U	0.580	11.8	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.476U	0.476	11.8	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.496U	0.496	11.8	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.478U	0.478	11.8	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.219U	0.219	11.8	ug/L
85-68-7	Butyl benzyl phthalate	0.251U	0.251	11.8	ug/L
105-60-2	Caprolactam	1.22U	1.22	11.8	ug/L
86-74-8	Carbazole	0.311U	0.311	11.8	ug/L
218-01-9	Chrysene	0.152U	0.152	11.8	ug/L
53-70-3	Dibenz(a,h)anthracene	0.252U	0.252	11.8	ug/L
132-64-9	Dibenzofuran	0.436U	0.436	11.8	ug/L
84-66-2	Diethyl phthalate	0.308U	0.308	11.8	ug/L
131-11-3	Dimethyl phthalate	0.395U	0.395	11.8	ug/L
84-74-2	Di-n-butyl phthalate	0.308U	0.308	11.8	ug/L
117-84-0	Di-n-octyl phthalate	0.145U	0.145	11.8	ug/L
206-44-0	Fluoranthene	0.276U	0.276	11.8	ug/L
86-73-7	Fluorene	0.421U	0.421	11.8	ug/L
118-74-1	Hexachlorobenzene	0.587U	0.587	11.8	ug/L
87-68-3	Hexachlorobutadiene	0.576U	0.576	11.8	ug/L

Sample Results

AS-032415-EQ-01	Collect Date	03/24/2015 14:45	GCAL ID	21503271520
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/28/2015 14:30	555105	EPA 3510C	1	03/30/2015 13:32	TKH2	555241
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			1.69U	1.69	11.8
67-72-1	Hexachloroethane			0.560U	0.560	11.8
193-39-5	Indeno(1,2,3-cd)pyrene			0.187U	0.187	11.8
78-59-1	Isophorone			0.433U	0.433	11.8
1319-77-3MP	m,p-Cresol			0.208U	0.208	11.8
91-20-3	Naphthalene			0.548U	0.548	11.8
98-95-3	Nitrobenzene			0.448U	0.448	11.8
621-64-7	n-Nitrosodi-n-propylamine			0.491U	0.491	11.8
86-30-6	n-Nitrosodiphenylamine			0.394U	0.394	11.8
95-48-7	o-Cresol			0.298U	0.298	11.8
87-86-5	Pentachlorophenol			0.339U	0.339	11.8
85-01-8	Phenanthrene			0.222U	0.222	11.8
108-95-2	Phenol			0.225U	0.225	11.8
129-00-0	Pyrene			0.478U	0.478	11.8
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	58.80	48.9	ug/L	83	44 - 120
321-60-8	2-Fluorobiphenyl	58.80	47.3	ug/L	80	44 - 119
1718-51-0	Terphenyl-d14	58.80	49.3	ug/L	84	50 - 134
4165-62-2	Phenol-d5	118	58.6	ug/L	50	10 - 120
367-12-4	2-Fluorophenol	118	73.5	ug/L	62	19 - 119
118-79-6	2,4,6-Tribromophenol	118	113	ug/L	96	43 - 140

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:00	555082	EPA 3010A	1	03/28/2015 15:37	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			0.25U	0.25	1.00
7440-39-3	Barium			0.25U	0.25	1.00
7440-43-9	Cadmium			0.25U	0.25	1.00
7440-47-3	Chromium			0.28J	0.25	1.00
7439-92-1	Lead			0.25U	0.25	1.00
7782-49-2	Selenium			0.25U	0.25	1.00
7440-22-4	Silver			0.25U	0.25	1.00

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 17:40	555083	EPA 7470A	1	03/28/2015 09:40	JBW2	555115
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.000043U	0.000043	0.00020

Sample Results

AS-032415-SS-06-DUP	Collect Date	03/24/2015 15:05	GCAL ID	21503271521
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	04/02/2015 21:35	JMC2	555511

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	8.15U	8.15	330	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	10.3U	10.3	330	ug/Kg
95-95-4	2,4,5-Trichlorophenol	10.4U	10.4	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	11.6U	11.6	330	ug/Kg
120-83-2	2,4-Dichlorophenol	9.48U	9.48	330	ug/Kg
105-67-9	2,4-Dimethylphenol	6.52U	6.52	330	ug/Kg
51-28-5	2,4-Dinitrophenol	22.5U	22.5	330	ug/Kg
121-14-2	2,4-Dinitrotoluene	6.72U	6.72	330	ug/Kg
606-20-2	2,6-Dinitrotoluene	12.3U	12.3	330	ug/Kg
91-58-7	2-Chloronaphthalene	10.5U	10.5	330	ug/Kg
95-57-8	2-Chlorophenol	7.24U	7.24	330	ug/Kg
91-57-6	2-Methylnaphthalene	10.5J	4.76	330	ug/Kg
88-74-4	2-Nitroaniline	4.19U	4.19	1650	ug/Kg
88-75-5	2-Nitrophenol	11.8U	11.8	330	ug/Kg
91-94-1	3,3'-Dichlorobenzidine	31.6U	31.6	660	ug/Kg
99-09-2	3-Nitroaniline	4.49U	4.49	1650	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	17.8U	17.8	1650	ug/Kg
101-55-3	4-Bromophenyl phenyl ether	10.5U	10.5	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	7.42U	7.42	330	ug/Kg
106-47-8	4-Chloroaniline	6.34U	6.34	330	ug/Kg
7005-72-3	4-Chlorophenyl phenyl ether	7.34U	7.34	330	ug/Kg
100-01-6	4-Nitroaniline	4.25U	4.25	1650	ug/Kg
100-02-7	4-Nitrophenol	21.0U	21.0	1650	ug/Kg
83-32-9	Acenaphthene	68.7J	10.1	330	ug/Kg
208-96-8	Acenaphthylene	6.75U	6.75	330	ug/Kg
98-86-2	Acetophenone	9.85U	9.85	330	ug/Kg
120-12-7	Anthracene	232J	6.79	330	ug/Kg
1912-24-9	Atrazine (Aatrex)	6.94U	6.94	660	ug/Kg
100-52-7	Benzaldehyde	32.0U	32.0	1650	ug/Kg
56-55-3	Benzo(a)anthracene	736	6.16	330	ug/Kg
50-32-8	Benzo(a)pyrene	832	4.14	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	974	6.52	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	550	4.99	330	ug/Kg
207-08-9	Benzo(k)fluoranthene	413	5.10	330	ug/Kg
92-52-4	Biphenyl	4.88U	4.88	330	ug/Kg
111-91-1	Bis(2-Chloroethoxy)methane	5.76U	5.76	330	ug/Kg
111-44-4	Bis(2-Chloroethyl)ether	12.8U	12.8	330	ug/Kg
108-60-1	Bis(2-Chloroisopropyl)ether	7.23U	7.23	330	ug/Kg
117-81-7	Bis(2-Ethylhexyl)phthalate	26.8J	4.68	330	ug/Kg
85-68-7	Butyl benzyl phthalate	6.59U	6.59	330	ug/Kg
105-60-2	Caprolactam	14.6U	14.6	330	ug/Kg
86-74-8	Carbazole	71.7J	6.38	330	ug/Kg
218-01-9	Chrysene	738	7.15	330	ug/Kg
53-70-3	Dibenz(a,h)anthracene	154J	4.74	330	ug/Kg
132-64-9	Dibenzofuran	34.7J	6.28	330	ug/Kg
84-66-2	Diethyl phthalate	12.2U	12.2	330	ug/Kg
131-11-3	Dimethyl phthalate	5.14U	5.14	330	ug/Kg
84-74-2	Di-n-butyl phthalate	6.38U	6.38	330	ug/Kg
117-84-0	Di-n-octyl phthalate	4.37U	4.37	330	ug/Kg
206-44-0	Fluoranthene	1560	5.37	330	ug/Kg
86-73-7	Fluorene	76.8J	5.95	330	ug/Kg
118-74-1	Hexachlorobenzene	12.8U	12.8	330	ug/Kg
87-68-3	Hexachlorobutadiene	8.74U	8.74	330	ug/Kg

Sample Results

AS-032415-SS-06-DUP	Collect Date	03/24/2015 15:05	GCAL ID	21503271521
	Receive Date	03/27/2015 10:30	Matrix	Solid

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/30/2015 09:00	555107	EPA 3550C	1	04/02/2015 21:35	JMC2	555511

CAS#	Parameter	Result	MDL	LOQ	Units
77-47-4	Hexachlorocyclopentadiene	70.0U	70.0	330	ug/Kg
67-72-1	Hexachloroethane	15.7U	15.7	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	618	7.95	330	ug/Kg
78-59-1	Isophorone	5.87U	5.87	330	ug/Kg
1319-77-3MP	m,p-Cresol	12.4U	12.4	330	ug/Kg
91-20-3	Naphthalene	14.7J	10.3	330	ug/Kg
98-95-3	Nitrobenzene	17.2U	17.2	330	ug/Kg
621-64-7	n-Nitrosodi-n-propylamine	14.4U	14.4	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	6.98U	6.98	330	ug/Kg
95-48-7	o-Cresol	10.2U	10.2	330	ug/Kg
87-86-5	Pentachlorophenol	7.39U	7.39	1650	ug/Kg
85-01-8	Phenanthrene	747	7.58	330	ug/Kg
108-95-2	Phenol	9.10U	9.10	330	ug/Kg
129-00-0	Pyrene	1160	4.63	330	ug/Kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	1670	1010	ug/Kg	61	37 - 122
321-60-8	2-Fluorobiphenyl	1670	1090	ug/Kg	65	44 - 115
1718-51-0	Terphenyl-d14	1670	1070	ug/Kg	64	54 - 127
4165-62-2	Phenol-d5	3330	2130	ug/Kg	64	33 - 122
367-12-4	2-Fluorophenol	3330	1980	ug/Kg	59	35 - 115
118-79-6	2,4,6-Tribromophenol	3330	2000	ug/Kg	60	39 - 132

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:35	555081	EPA 3050B	10	03/28/2015 23:00	JBW2	555116

CAS#	Parameter	Result	MDL	LOQ	Units
7440-38-2	Arsenic	1030	100	400	ug/Kg
7440-39-3	Barium	68400	100	400	ug/Kg
7440-43-9	Cadmium	122J	100	400	ug/Kg
7440-47-3	Chromium	3440	100	400	ug/Kg
7439-92-1	Lead	39000	100	400	ug/Kg
7782-49-2	Selenium	100U	100	400	ug/Kg
7440-22-4	Silver	100U	100	400	ug/Kg

EPA 7471B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 16:30	555000	EPA 7471B	1	03/28/2015 12:06	JBW2	555118

CAS#	Parameter	Result	MDL	LOQ	Units
7439-97-6	Mercury	0.025	0.0045	0.011	mg/kg

Sample Results

AS-032415-FB-01	Collect Date	03/24/2015 16:40	GCAL ID	21503271522
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/28/2015 14:30	555105	EPA 3510C	1	03/30/2015 15:45	TKH2	555241

CAS#	Parameter	Result	MDL	LOQ	Units
95-94-3	1,2,4,5-Tetrachlorobenzene	0.509U	0.509	25.0	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.214U	0.214	25.0	ug/L
95-95-4	2,4,5-Trichlorophenol	0.336U	0.336	12.5	ug/L
88-06-2	2,4,6-Trichlorophenol	0.405U	0.405	12.5	ug/L
120-83-2	2,4-Dichlorophenol	0.479U	0.479	12.5	ug/L
105-67-9	2,4-Dimethylphenol	0.468U	0.468	12.5	ug/L
51-28-5	2,4-Dinitrophenol	1.70U	1.70	12.5	ug/L
121-14-2	2,4-Dinitrotoluene	0.354U	0.354	12.5	ug/L
606-20-2	2,6-Dinitrotoluene	0.308U	0.308	12.5	ug/L
91-58-7	2-Chloronaphthalene	0.489U	0.489	12.5	ug/L
95-57-8	2-Chlorophenol	0.386U	0.386	12.5	ug/L
91-57-6	2-Methylnaphthalene	0.586U	0.586	12.5	ug/L
88-74-4	2-Nitroaniline	0.193U	0.193	12.5	ug/L
88-75-5	2-Nitrophenol	0.571U	0.571	12.5	ug/L
91-94-1	3,3'-Dichlorobenzidine	0.153U	0.153	12.5	ug/L
99-09-2	3-Nitroaniline	0.380U	0.380	12.5	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	1.34U	1.34	12.5	ug/L
101-55-3	4-Bromophenyl phenyl ether	0.564U	0.564	12.5	ug/L
59-50-7	4-Chloro-3-methylphenol	0.415U	0.415	12.5	ug/L
106-47-8	4-Chloroaniline	0.364U	0.364	12.5	ug/L
7005-72-3	4-Chlorophenyl phenyl ether	0.498U	0.498	12.5	ug/L
100-01-6	4-Nitroaniline	0.410U	0.410	12.5	ug/L
100-02-7	4-Nitrophenol	1.46U	1.46	12.5	ug/L
83-32-9	Acenaphthene	0.456U	0.456	12.5	ug/L
208-96-8	Acenaphthylene	0.461U	0.461	12.5	ug/L
98-86-2	Acetophenone	0.540U	0.540	12.5	ug/L
120-12-7	Anthracene	0.269U	0.269	12.5	ug/L
1912-24-9	Atrazine (Aatrex)	0.415U	0.415	62.5	ug/L
100-52-7	Benzaldehyde	1.35U	1.35	62.5	ug/L
56-55-3	Benzo(a)anthracene	0.308U	0.308	12.5	ug/L
50-32-8	Benzo(a)pyrene	0.213U	0.213	12.5	ug/L
205-99-2	Benzo(b)fluoranthene	0.231U	0.231	12.5	ug/L
191-24-2	Benzo(g,h,i)perylene	0.248U	0.248	12.5	ug/L
207-08-9	Benzo(k)fluoranthene	0.344U	0.344	12.5	ug/L
92-52-4	Biphenyl	0.616U	0.616	12.5	ug/L
111-91-1	Bis(2-Chloroethoxy)methane	0.506U	0.506	12.5	ug/L
111-44-4	Bis(2-Chloroethyl)ether	0.528U	0.528	12.5	ug/L
108-60-1	Bis(2-Chloroisopropyl)ether	0.508U	0.508	12.5	ug/L
117-81-7	Bis(2-Ethylhexyl)phthalate	0.233U	0.233	12.5	ug/L
85-68-7	Butyl benzyl phthalate	0.266U	0.266	12.5	ug/L
105-60-2	Caprolactam	1.30U	1.30	12.5	ug/L
86-74-8	Carbazole	0.330U	0.330	12.5	ug/L
218-01-9	Chrysene	0.161U	0.161	12.5	ug/L
53-70-3	Dibenz(a,h)anthracene	0.268U	0.268	12.5	ug/L
132-64-9	Dibenzofuran	0.464U	0.464	12.5	ug/L
84-66-2	Diethyl phthalate	0.328U	0.328	12.5	ug/L
131-11-3	Dimethyl phthalate	0.420U	0.420	12.5	ug/L
84-74-2	Di-n-butyl phthalate	0.328U	0.328	12.5	ug/L
117-84-0	Di-n-octyl phthalate	0.154U	0.154	12.5	ug/L
206-44-0	Fluoranthene	0.294U	0.294	12.5	ug/L
86-73-7	Fluorene	0.448U	0.448	12.5	ug/L
118-74-1	Hexachlorobenzene	0.624U	0.624	12.5	ug/L
87-68-3	Hexachlorobutadiene	0.613U	0.613	12.5	ug/L

Sample Results

AS-032415-FB-01	Collect Date	03/24/2015 16:40	GCAL ID	21503271522
	Receive Date	03/27/2015 10:30	Matrix	Water

EPA 8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/28/2015 14:30	555105	EPA 3510C	1	03/30/2015 15:45	TKH2	555241
CAS#	Parameter			Result	MDL	LOQ
77-47-4	Hexachlorocyclopentadiene			1.80U	1.80	12.5
67-72-1	Hexachloroethane			0.595U	0.595	12.5
193-39-5	Indeno(1,2,3-cd)pyrene			0.199U	0.199	12.5
78-59-1	Isophorone			0.460U	0.460	12.5
1319-77-3MP	m,p-Cresol			0.221U	0.221	12.5
91-20-3	Naphthalene			0.583U	0.583	12.5
98-95-3	Nitrobenzene			0.476U	0.476	12.5
621-64-7	n-Nitrosodi-n-propylamine			0.521U	0.521	12.5
86-30-6	n-Nitrosodiphenylamine			0.419U	0.419	12.5
95-48-7	o-Cresol			0.316U	0.316	12.5
87-86-5	Pentachlorophenol			0.360U	0.360	12.5
85-01-8	Phenanthrene			0.236U	0.236	12.5
108-95-2	Phenol			0.239U	0.239	12.5
129-00-0	Pyrene			0.508U	0.508	12.5
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	62.50	40.9	ug/L	65	44 - 120
321-60-8	2-Fluorobiphenyl	62.50	41.1	ug/L	66	44 - 119
1718-51-0	Terphenyl-d14	62.50	47.4	ug/L	76	50 - 134
4165-62-2	Phenol-d5	125	46.6	ug/L	37	10 - 120
367-12-4	2-Fluorophenol	125	62.1	ug/L	50	19 - 119
118-79-6	2,4,6-Tribromophenol	125	92.9	ug/L	74	43 - 140

EPA 6020A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 15:00	555082	EPA 3010A	1	03/28/2015 15:51	JBW2	555116
CAS#	Parameter			Result	MDL	LOQ
7440-38-2	Arsenic			0.25U	0.25	1.00
7440-39-3	Barium			0.25U	0.25	1.00
7440-43-9	Cadmium			0.25U	0.25	1.00
7440-47-3	Chromium			0.25U	0.25	1.00
7439-92-1	Lead			0.25U	0.25	1.00
7782-49-2	Selenium			0.25U	0.25	1.00
7440-22-4	Silver			0.25U	0.25	1.00

EPA 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
03/27/2015 17:40	555083	EPA 7470A	1	03/28/2015 09:43	JBW2	555115
CAS#	Parameter			Result	MDL	LOQ
7439-97-6	Mercury			0.000043U	0.000043	0.00020

GC/MS Semi-Volatiles QC Summary

Analytical Batch 555240	Client ID GCAL ID 1428967	MB555105 1428968	LCS555105 LCS 03/28/2015 14:30	LCSD555105 LCSD 03/28/2015 14:30								
Prep Batch 555105	Sample Type Prep Date 03/28/2015 14:30	03/30/2015 13:00	03/30/2015 10:23	03/30/2015 10:40								
Prep Method EPA 3510C	Analysis Date 03/30/2015 10:23	Matrix Water	Water	Water								
EPA 8270C		Units ug/L	ug/L MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	95-94-3	0.407U	0.407	50.0	36.8	74	35 - 121	50.0	30.0	60	20	30
2,3,4,6-Tetrachlorophenol	58-90-2	0.171U	0.171	50.0	41.5	83	50 - 128	50.0	36.9	74	12	30
2,4,5-Trichlorophenol	95-95-4	0.269U	0.269	50.0	45.2	90	53 - 123	50.0	40.9	82	10	30
2,4,6-Trichlorophenol	88-06-2	0.324U	0.324	50.0	46.6	93	50 - 125	50.0	40.3	81	14	30
2,4-Dichlorophenol	120-83-2	0.383U	0.383	50.0	45.7	91	47 - 121	50.0	34.6	69	28	30
2,4-Dimethylphenol	105-67-9	0.374U	0.374	50.0	43.9	88	31 - 124	50.0	34.3	69	25	30
2,4-Dinitrophenol	51-28-5	1.36U	1.36	50.0	31.9	64	23 - 143	50.0	30.1	60	6	30
2,4-Dinitrotoluene	121-14-2	0.283U	0.283	50.0	47.2	94	57 - 128	50.0	43.9	88	7	30
2,6-Dinitrotoluene	606-20-2	0.246U	0.246	50.0	47.8	96	57 - 124	50.0	43.5	87	9	30
2-Chloronaphthalene	91-58-7	0.391U	0.391	50.0	45.6	91	40 - 116	50.0	37.8	76	19	30
2-Chlorophenol	95-57-8	0.309U	0.309	50.0	44.2	88	38 - 117	50.0	31.9	64	32*	30
2-Methylnaphthalene	91-57-6	0.469U	0.469	50.0	43.5	87	40 - 121	50.0	32.8	66	28	30
2-Nitroaniline	88-74-4	0.154U	0.154	50.0	44.6	89	55 - 127	50.0	41.3	83	8	30
2-Nitrophenol	88-75-5	0.457U	0.457	50.0	44.9	90	47 - 123	50.0	32.5	65	32*	30
3,3'-Dichlorobenzidine	91-94-1	0.122U	0.122	50.0	51.1	102	27 - 129	50.0	43.5	87	16	30
3-Nitroaniline	99-09-2	0.304U	0.304	50.0	42.5	85	41 - 128	50.0	41.3	83	3	30
4,6-Dinitro-2-methylphenol	534-52-1	1.07U	1.07	50.0	43.5	87	44 - 137	50.0	39.1	78	11	30
4-Bromophenyl phenyl ether	101-55-3	0.451U	0.451	50.0	48.2	96	55 - 124	50.0	44.2	88	9	30
4-Chloro-3-methylphenol	59-50-7	0.332U	0.332	50.0	43.1	86	52 - 119	50.0	36.4	73	17	30
4-Chloroaniline	106-47-8	0.291U	0.291	50.0	50.7	101	33 - 117	50.0	41.1	82	21	30
4-Chlorophenyl phenyl ether	7005-72-3	0.398U	0.398	50.0	45.0	90	53 - 121	50.0	40.4	81	11	30
4-Nitroaniline	100-01-6	0.328U	0.328	50.0	45.8	92	38 - 120	50.0	41.6	83	10	30
4-Nitrophenol	100-02-7	1.17U	1.17	50.0	21.3	43	10 - 120	50.0	20.6	41	3	30
Acenaphthene	83-32-9	0.365U	0.365	50.0	45.8	92	47 - 122	50.0	40.3	81	13	30
Acenaphthylene	208-96-8	0.369U	0.369	50.0	47.0	94	41 - 130	50.0	40.5	81	15	30
Acetophenone	98-86-2	0.432U	0.432	50.0	41.9	84	46 - 118	50.0	30.7	61	31*	30
Anthracene	120-12-7	0.215U	0.215	50.0	52.6	105	57 - 123	50.0	46.4	93	13	30
Atrazine (Aatrex)	1912-24-9	0.332U	0.332	50.0	168	336*	44 - 142	50.0	146	292*	14	30
Benzaldehyde	100-52-7	1.08U	1.08	50.0	97.8	196*	20 - 120	50.0	73.0	146*	29	30
Benzo(a)anthracene	56-55-3	0.246U	0.246	50.0	49.2	98	58 - 125	50.0	44.0	88	11	30
Benzo(a)pyrene	50-32-8	0.170U	0.170	50.0	52.4	105	54 - 128	50.0	47.0	94	11	30
Benzo(b)fluoranthene	205-99-2	0.185U	0.185	50.0	51.5	103	53 - 131	50.0	45.9	92	11	30
Benzo(g,h,i)perylene	191-24-2	0.198U	0.198	50.0	48.1	96	50 - 134	50.0	44.6	89	8	30
Benzo(k)fluoranthene	207-08-9	0.275U	0.275	50.0	48.3	97	57 - 129	50.0	42.6	85	13	30
Biphenyl	92-52-4	0.493U	0.493	50.0	40.1	80	49 - 115	50.0	32.0	64	22	30
Bis(2-Chloroethoxy)methane	111-91-1	0.405U	0.405	50.0	43.4	87	48 - 120	50.0	32.3	65	29	30
Bis(2-Chloroethyl)ether	111-44-4	0.422U	0.422	50.0	40.3	81	43 - 118	50.0	27.9	56	36*	30
Bis(2-Chloroisopropyl)ether	108-60-1	0.406U	0.406	50.0	41.6	83	37 - 130	50.0	29.0	58	36*	30
Bis(2-Ethylhexyl)phthalate	117-81-7	0.186U	0.186	50.0	41.4	83	55 - 135	50.0	35.2	70	16	30
Butyl benzyl phthalate	85-68-7	0.213U	0.213	50.0	45.9	92	53 - 134	50.0	39.1	78	16	30
Caprolactam	105-60-2	1.04U	1.04	50.0	17.4	35	20 - 120	50.0	14.4	29	19	30
Carbazole	86-74-8	0.264U	0.264	50.0	47.2	94	60 - 122	50.0	42.7	85	10	30
Chrysene	218-01-9	0.129U	0.129	50.0	47.0	94	59 - 123	50.0	42.3	85	11	30
Dibenz(a,h)anthracene	53-70-3	0.214U	0.214	50.0	42.8	86	51 - 134	50.0	38.2	76	11	30
Dibenzofuran	132-64-9	0.371U	0.371	50.0	45.3	91	53 - 118	50.0	41.3	83	9	30
Diethyl phthalate	84-66-2	0.262U	0.262	50.0	43.4	87	56 - 125	50.0	39.0	78	11	30
Dimethyl phthalate	131-11-3	0.336U	0.336	50.0	44.9	90	45 - 127	50.0	40.2	80	11	30
Di-n-butyl phthalate	84-74-2	0.262U	0.262	50.0	47.0	94	59 - 127	50.0	40.2	80	16	30
Di-n-octyl phthalate	117-84-0	0.123U	0.123	50.0	40.0	80	51 - 140	50.0	34.8	70	14	30
Fluoranthene	206-44-0	0.235U	0.235	50.0	48.2	96	57 - 128	50.0	41.8	84	14	30
Fluorene	86-73-7	0.358U	0.358	50.0	45.7	91	52 - 124	50.0	42.0	84	8	30
Hexachlorobenzene	118-74-1	0.499U	0.499	50.0	51.0	102	53 - 125	50.0	47.2	94	8	30
Hexachlorobutadiene	87-68-3	0.490U	0.490	50.0	41.9	84	22 - 124	50.0	27.7	55	41*	30
Hexachlorocyclopentadiene	77-47-4	1.44U	1.44	50.0	38.9	78	16 - 120	50.0	26.5	53	38*	30
Hexachloroethane	67-72-1	0.476U	0.476	50.0	40.9	82	21 - 115	50.0	28.2	56	37*	30
Indeno(1,2,3-cd)pyrene	193-39-5	0.159U	0.159	50.0	42.9	86	52 - 134	50.0	39.2	78	9	30
Isophorone	78-59-1	0.368U	0.368	50.0	43.8	88	42 - 124	50.0	34.6	69	23	30
m,p-Cresol	1319-77-3MP	0.177U	0.177	50.0	37.1	74	29 - 110	50.0	29.4	59	23	30

GC/MS Semi-Volatiles QC Summary

Analytical Batch		Client ID	MB555105	LCS555105				LCSD555105				
Prep Batch	Sample Type	GCAL ID	1428967	1428968				1428969				
Prep Method	Analysis Date	Prep Date	MB	LCS				LCSD				
EPA 3510C	Matrix		Water	03/28/2015 14:30				03/28/2015 14:30				
EPA 8270C		Units Result	ug/L MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Naphthalene	91-20-3	0.466U	0.466	50.0	44.3	89	40 - 121	50.0	31.6	63	33*	30
Nitrobenzene	98-95-3	0.381U	0.381	50.0	44.0	88	45 - 121	50.0	33.2	66	28	30
n-Nitrosodi-n-propylamine	621-64-7	0.417U	0.417	50.0	40.5	81	49 - 119	50.0	31.7	63	24	30
n-Nitrosodiphenylamine	86-30-6	0.335U	0.335	50.0	49.5	99	51 - 123	50.0	45.1	90	9	30
o-Cresol	95-48-7	0.253U	0.253	50.0	38.0	76	30 - 117	50.0	29.0	58	27	30
Pentachlorophenol	87-86-5	0.288U	0.288	50.0	47.3	95	35 - 138	50.0	41.5	83	13	30
Phenanthere	85-01-8	0.189U	0.189	50.0	48.1	96	59 - 120	50.0	42.8	86	12	30
Phenol	108-95-2	0.191U	0.191	50.0	21.1	42	16 - 120	50.0	17.2	34	20	30
Pyrene	129-00-0	0.406U	0.406	50.0	49.2	98	57 - 126	50.0	43.0	86	13	30
Surrogate												
2,4,6-Tribromophenol	118-79-6	94.4	94	100	87.2	87	43 - 140	100	78.7	79	10	NA
2-Fluorobiphenyl	321-60-8	43.8	88	50	44.7	89	44 - 119	50	37.8	76	17	NA
2-Fluorophenol	367-12-4	60.7	61	100	59.1	59	19 - 119	100	45.6	46	26	NA
Nitrobenzene-d5	4165-60-0	43.8	88	50	43.1	86	44 - 120	50	32	64	30	NA
Phenol-d5	4165-62-2	44.1	44	100	41.3	41	10 - 120	100	34	34	19	NA
Terphenyl-d14	1718-51-0	43.9	88	50	51.6	103	50 - 134	50	43.6	87	17	NA

Analytical Batch		Client ID	MB555107	LCS555107				LCSD555107				
Prep Batch	Sample Type	GCAL ID	1428975	1428976				1428977				
Prep Method	Analysis Date	Prep Date	MB	03/30/2015 09:00				03/30/2015 09:00				
EPA 350C	Matrix	Analysis Date	Solid	03/30/2015 21:49				03/30/2015 22:05				
EPA 8270C		Units Result	ug/Kg MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	95-94-3	8.15U	8.15	1670	1320	79	37 - 119	1670	1390	83	5	30
2,3,4,6-Tetrachlorophenol	58-90-2	10.3U	10.3	1670	1330	80	44 - 125	1670	1400	84	5	30
2,4,5-Trichlorophenol	95-95-4	10.4U	10.4	1670	1370	82	41 - 124	1670	1480	89	8	30
2,4,6-Trichlorophenol	88-06-2	11.6U	11.6	1670	1380	83	39 - 126	1670	1480	89	7	30
2,4-Dichlorophenol	120-83-2	9.48U	9.48	1670	1300	78	40 - 122	1670	1380	83	6	30
2,4-Dimethylphenol	105-67-9	6.52U	6.52	1670	1380	83	30 - 127	1670	1490	89	8	30
2,4-Dinitrophenol	51-28-5	22.5U	22.5	1670	1230	74	14 - 120	1670	1320	79	7	30
2,4-Dinitrotoluene	121-14-2	6.72U	6.72	1670	1480	89	48 - 126	1670	1520	91	3	30
2,6-Dinitrotoluene	606-20-2	12.3U	12.3	1670	1400	84	46 - 124	1670	1560	94	11	30
2-Chloronaphthalene	91-58-7	10.5U	10.5	1670	1280	77	41 - 114	1670	1360	82	6	30
2-Chlorophenol	95-57-8	7.24U	7.24	1670	1310	79	34 - 121	1670	1380	83	5	30
2-Methylnaphthalene	91-57-6	4.76U	4.76	1670	1280	77	38 - 122	1670	1360	82	6	30
2-Nitroaniline	88-74-4	4.19U	4.19	1670	1300	78	44 - 127	1670	1400	84	7	30
2-Nitrophenol	88-75-5	11.8U	11.8	1670	1320	79	36 - 123	1670	1380	83	4	30
3,3'-Dichlorobenzidine	91-94-1	31.6U	31.6	1670	1340	80	22 - 121	1670	1410	85	5	30
3-Nitroaniline	99-09-2	4.49U	4.49	1670	1100	66	33 - 119	1670	1200	72	9	30
4,6-Dinitro-2-methylphenol	534-52-1	17.8U	17.8	1670	1300	78	29 - 132	1670	1400	84	7	30
4-Bromophenyl phenyl ether	101-55-3	10.5U	10.5	1670	1370	82	46 - 124	1670	1430	86	4	30
4-Chloro-3-methylphenol	59-50-7	7.42U	7.42	1670	1400	84	45 - 122	1670	1510	91	8	30
4-Chloroaniline	106-47-8	6.34U	6.34	1670	1160	70	17 - 106	1670	1230	74	6	30
4-Chlorophenyl phenyl ether	7005-72-3	7.34U	7.34	1670	1360	82	45 - 121	1670	1450	87	6	30
4-Nitroaniline	100-01-6	4.25U	4.25	1670	1370	82	32 - 120	1670	1350	81	1	30
4-Nitrophenol	100-02-7	21.0U	21.0	1670	1380	83	30 - 132	1670	1460	88	6	30
Acenaphthene	83-32-9	10.1U	10.1	1670	1300	78	40 - 123	1670	1400	84	7	30
Acenaphthylene	208-96-8	6.75U	6.75	1670	1310	79	32 - 132	1670	1400	84	7	30
Acetophenone	98-86-2	9.85U	9.85	1670	1290	77	33 - 115	1670	1320	79	2	30
Anthracene	120-12-7	6.79U	6.79	1670	1420	85	47 - 123	1670	1490	89	5	30
Atrazine (Aatrex)	1912-24-9	6.94U	6.94	1670	4650	279*	47 - 127	1670	4860	292*	4	30
Benzaldehyde	100-52-7	32.0U	32.0	1670	1090	65	25 - 127	1670	1470	88	30	30
Benzo(a)anthracene	56-55-3	6.16U	6.16	1670	1370	82	49 - 126	1670	1440	86	5	30
Benzo(a)pyrene	50-32-8	4.14U	4.14	1670	1430	86	45 - 129	1670	1500	90	5	30
Benzo(b)fluoranthene	205-99-2	6.52U	6.52	1670	1370	82	45 - 132	1670	1430	86	4	30

GC/MS Semi-Volatiles QC Summary

Analytical Batch 555308	Client ID GCAL ID 1428975	MB555107 1428976	LCS555107 1428976	LCS555107 1428977								
Prep Batch 555107	Sample Type MB	Prep Date 03/30/2015 09:00	Analysis Date 03/30/2015 21:32	Matrix Solid								
EPA 8270C		Units Result	ug/Kg MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Benzo(g,h,i)perylene	191-24-2	4.99U	4.99	1670	1330	80	43 - 134	1670	1410	85	6	30
Benzo(k)fluoranthene	207-08-9	5.10U	5.10	1670	1410	85	47 - 132	1670	1510	91	7	30
Biphenyl	92-52-4	4.88U	4.88	1670	1270	76	40 - 117	1670	1340	80	5	30
Bis(2-Chloroethoxy)methane	111-91-1	5.76U	5.76	1670	1290	77	36 - 121	1670	1370	82	6	30
Bis(2-Chloroethyl)ether	111-44-4	12.8U	12.8	1670	1260	76	31 - 120	1670	1340	80	6	30
Bis(2-Chloroisopropyl)ether	108-60-1	7.23U	7.23	1670	1270	76	33 - 131	1670	1360	82	7	30
Bis(2-Ethylhexyl)phthalate	117-81-7	4.68U	4.68	1670	1470	88	51 - 133	1670	1550	93	5	30
Butyl benzyl phthalate	85-68-7	6.59U	6.59	1670	1420	85	48 - 132	1670	1480	89	4	30
Caprolactam	105-60-2	14.6U	14.6	1670	1240	74	46 - 117	1670	1410	85	13	30
Carbazole	86-74-8	6.38U	6.38	1670	1380	83	50 - 123	1670	1480	89	7	30
Chrysene	218-01-9	7.15U	7.15	1670	1350	81	50 - 124	1670	1410	85	4	30
Dibenz(a,h)anthracene	53-70-3	4.74U	4.74	1670	1360	82	45 - 134	1670	1450	87	6	30
Dibenzofuran	132-64-9	6.28U	6.28	1670	1340	80	44 - 120	1670	1420	85	6	30
Diethyl phthalate	84-66-2	12.2U	12.2	1670	1380	83	50 - 124	1670	1460	88	6	30
Dimethyl phthalate	131-11-3	5.14U	5.14	1670	1350	81	48 - 124	1670	1450	87	7	30
Di-n-butyl phthalate	84-74-2	6.38U	6.38	1670	1460	88	51 - 128	1670	1530	92	5	30
Di-n-octyl phthalate	117-84-0	4.37U	4.37	1670	1370	82	45 - 140	1670	1440	86	5	30
Fluoranthene	206-44-0	5.37U	5.37	1670	1410	85	50 - 127	1670	1470	88	4	30
Fluorene	86-73-7	5.95U	5.95	1670	1370	82	43 - 125	1670	1470	88	7	30
Hexachlorobenzene	118-74-1	12.8U	12.8	1670	1340	80	45 - 122	1670	1450	87	8	30
Hexachlorobutadiene	87-68-3	8.74U	8.74	1670	1220	73	32 - 123	1670	1310	79	7	30
Hexachlorocyclopentadiene	77-47-4	70.0U	70.0	1670	1120	67	23 - 121	1670	1210	73	8	30
Hexachloroethane	67-72-1	15.7U	15.7	1670	1120	67	28 - 117	1670	1170	70	4	30
Indeno(1,2,3-cd)pyrene	193-39-5	7.95U	7.95	1670	1190	71	45 - 133	1670	1260	76	6	30
Isophorone	78-59-1	5.87U	5.87	1670	1330	80	30 - 122	1670	1420	85	7	30
m,p-Cresol	1319-77-3MP	12.4U	12.4	1670	1390	83	34 - 119	1670	1500	90	8	30
Naphthalene	91-20-3	10.3U	10.3	1670	1260	76	35 - 123	1670	1320	79	5	30
Nitrobenzene	98-95-3	17.2U	17.2	1670	1330	80	34 - 122	1670	1400	84	5	30
n-Nitrosodi-n-propylamine	621-64-7	14.4U	14.4	1670	1360	82	36 - 120	1670	1450	87	6	30
n-Nitrosodiphenylamine	86-30-6	6.98U	6.98	1670	1390	83	38 - 127	1670	1470	88	6	30
o-Cresol	95-48-7	10.2U	10.2	1670	1400	84	32 - 122	1670	1470	88	5	30
Pentachlorophenol	87-86-5	7.39U	7.39	1670	1440	86	25 - 133	1670	1620	97	12	30
Phenanthrene	85-01-8	7.58U	7.58	1670	1370	82	50 - 121	1670	1470	88	7	30
Phenol	108-95-2	9.10U	9.10	1670	1350	81	34 - 121	1670	1410	85	4	30
Pyrene	129-00-0	4.63U	4.63	1670	1400	84	47 - 127	1670	1460	88	4	30
Surrogate												
2,4,6-Tribromophenol	118-79-6	2360	71	3330	2760	83	39 - 132	3330	2890	87	5	NA
2-Fluorobiphenyl	321-60-8	1190	71	1670	1280	77	44 - 115	1670	1300	78	2	NA
2-Fluorophenol	367-12-4	2400	72	3330	2540	76	35 - 115	3330	2630	79	3	NA
Nitrobenzene-d5	4165-60-0	1120	67	1670	1190	71	37 - 122	1670	1230	74	3	NA
Phenol-d5	4165-62-2	2650	80	3330	2810	84	33 - 122	3330	2850	86	1	NA
Terphenyl-d14	1718-51-0	1520	91	1670	1550	93	54 - 127	1670	1570	94	1	NA

Analytical Batch 55511	Client ID GCAL ID 21503271516	AS-032415-SS-08 21503271517	AS-032415-SS-08 MS 21503271518	AS-032415-SS-08 MSD 21503271518								
Prep Batch 555107	Sample Type SAMPLE	MS	MSD	MSD								
Prep Method EPA 3550C	Prep Date 03/30/2015 09:00	03/30/2015 09:00	03/30/2015 09:00	03/30/2015 09:00								
EPA 8270C		Units Result	ug/Kg MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	95-94-3	0.00	8.12	1660	1280	77	37 - 119	1670	1200	72	6	30
2,3,4,6-Tetrachlorophenol	58-90-2	0.00	10.3	1660	1280	77	44 - 125	1670	1310	79	2	30
2,4,5-Trichlorophenol	95-95-4	0.00	10.4	1660	1320	79	41 - 124	1670	1350	81	2	30
2,4,6-Trichlorophenol	88-06-2	0.00	11.6	1660	1360	82	39 - 126	1670	1380	83	1	30
2,4-Dichlorophenol	120-83-2	0.00	9.45	1660	1190	72	40 - 122	1670	1130	68	5	30
2,4-Dimethylphenol	105-67-9	0.00	6.50	1660	1060	64	30 - 127	1670	993	60	7	30

GC/MS Semi-Volatiles QC Summary

Analytical Batch 555511	Client ID GCAL ID 21503271516	AS-032415-SS-08 21503271517	AS-032415-SS-08 MS 21503271517	AS-032415-SS-08 MSD 21503271518
Prep Batch 555107	Sample Type Prep Date 03/30/2015 09:00	MS	MSD	MSD
Prep Method EPA 3550C	Analysis Date 04/02/2015 20:44	Solid	03/30/2015 09:00	03/30/2015 09:00
EPA 8270C		Units Result	ug/Kg MDL	Spike Added
				Result %R
				Control Limits%R
2,4-Dinitrophenol	51-28-5	0.00	22.4	1660 1230 74 14 - 120
2,4-Dinitrotoluene	121-14-2	0.00	6.70	1660 1370 82 48 - 126
2,6-Dinitrotoluene	606-20-2	0.00	12.3	1660 1350 81 46 - 124
2-Chloronaphthalene	91-58-7	0.00	10.5	1660 1220 73 41 - 114
2-Chlorophenol	95-57-8	0.00	7.22	1660 1150 69 34 - 121
2-Methylnaphthalene	91-57-6	0.00	4.74	1660 1110 67 38 - 122
2-Nitroaniline	88-74-4	0.00	4.18	1660 1250 75 44 - 127
2-Nitrophenol	88-75-5	0.00	11.8	1660 1200 72 36 - 123
3,3'-Dichlorobenzidine	91-94-1	0.00	31.5	1660 0.00 0* 22 - 121
3-Nitroaniline	99-09-2	0.00	4.48	1660 783 47 33 - 119
4,6-Dinitro-2-methylphenol	534-52-1	0.00	17.7	1660 1310 79 29 - 132
4-Bromophenyl phenyl ether	101-55-3	0.00	10.5	1660 1350 81 46 - 124
4-Chloro-3-methylphenol	59-50-7	0.00	7.40	1660 1230 74 45 - 122
4-Chloroaniline	106-47-8	0.00	6.32	1660 595 36 17 - 106
4-Chlorophenyl phenyl ether	7005-72-3	0.00	7.32	1660 1280 77 45 - 121
4-Nitroaniline	100-01-6	0.00	4.24	1660 987 59 32 - 120
4-Nitrophenol	100-02-7	0.00	20.9	1660 1360 82 30 - 132
Acenaphthene	83-32-9	0.00	10.1	1660 1240 75 40 - 123
Acenaphthylene	208-96-8	0.00	6.73	1660 1240 75 32 - 132
Acetophenone	98-86-2	0.00	9.82	1660 1110 67 33 - 115
Anthracene	120-12-7	10.9	6.77	1660 1360 81 47 - 123
Atrazine (Aatrex)	1912-24-9	0.00	6.92	1660 4490 270* 47 - 127
Benzaldehyde	100-52-7	0.00	31.9	1660 1860 112 25 - 127
Benzo(a)anthracene	56-55-3	108	6.14	1660 1410 78 49 - 126
Benzo(a)pyrene	50-32-8	144	4.13	1660 1490 81 45 - 129
Benzo(b)fluoranthene	205-99-2	221	6.50	1660 1380 70 45 - 132
Benzo(g,h,i)perylene	191-24-2	158	4.97	1660 1820 100 43 - 134
Benzo(k)fluoranthene	207-08-9	63.1	5.08	1660 1370 79 47 - 132
Biphenyl	92-52-4	0.00	4.86	1660 1110 67 40 - 117
Bis(2-Chloroethoxy)methane	111-91-1	0.00	5.74	1660 1210 73 36 - 121
Bis(2-Chloroethyl)ether	111-44-4	0.00	12.8	1660 1100 66 31 - 120
Bis(2-Chloroisopropyl)ether	108-60-1	0.00	7.21	1660 1010 61 33 - 131
Bis(2-Ethylhexyl)phthalate	117-81-7	0.00	4.66	1660 1510 91 51 - 133
Butyl benzyl phthalate	85-68-7	0.00	6.57	1660 1450 87 48 - 132
Caprolactam	105-60-2	0.00	14.6	1660 1290 78 46 - 117
Carbazole	86-74-8	6.97	6.36	1660 1320 79 50 - 123
Chrysene	218-01-9	148	7.13	1660 1450 78 50 - 124
Dibenz(a,h)anthracene	53-70-3	24.7	4.72	1660 1650 98 45 - 134
Dibenzofuran	132-64-9	0.00	6.26	1660 1280 77 44 - 120
Diethyl phthalate	84-66-2	0.00	12.2	1660 1290 78 50 - 124
Dimethyl phthalate	131-11-3	0.00	5.12	1660 1310 79 48 - 124
Di-n-butyl phthalate	84-74-2	9.88	6.36	1660 1440 86 51 - 128
Di-n-octyl phthalate	117-84-0	0.00	4.36	1660 1360 82 45 - 140
Fluoranthene	206-44-0	220	5.35	1660 1520 78 50 - 127
Fluorene	86-73-7	0.00	5.93	1660 1300 78 43 - 125
Hexachlorobenzene	118-74-1	0.00	12.8	1660 1380 83 45 - 122
Hexachlorobutadiene	87-68-3	0.00	8.71	1660 948 57 32 - 123
Hexachlorocyclopentadiene	77-47-4	0.00	69.8	1660 824 50 23 - 121
Hexachloroethane	67-72-1	0.00	15.6	1660 680 41 28 - 117
Indeno(1,2,3-cd)pyrene	193-39-5	152	7.92	1660 1680 92 45 - 133
Isophorone	78-59-1	0.00	5.85	1660 1260 76 30 - 122
m,p-Cresol	1319-77-3MP	0.00	12.4	1660 1130 68 34 - 119
Naphthalene	91-20-3	0.00	10.3	1660 1080 65 35 - 123
Nitrobenzene	98-95-3	0.00	17.1	1660 1210 73 34 - 122
n-Nitrosodi-n-propylamine	621-64-7	0.00	14.4	1660 1180 71 36 - 120
n-Nitrosodiphenylamine	86-30-6	0.00	6.96	1660 1280 77 38 - 127
o-Cresol	95-48-7	0.00	10.2	1660 1170 70 32 - 122
Pentachlorophenol	87-86-5	0.00	7.37	1660 1590 96 25 - 133

GC/MS Semi-Volatiles QC Summary

Analytical Batch 555511	Client ID GCAL ID	AS-032415-SS-08 21503271516	AS-032415-SS-08 MS 21503271517	AS-032415-SS-08 MSD 21503271518								
Prep Batch 555107	Sample Type	SAMPLE	MS	MSD								
	Prep Date	03/30/2015 09:00	03/30/2015 09:00	03/30/2015 09:00								
Prep Method EPA 3550C	Analysis Date	04/02/2015 20:44	04/02/2015 21:01	04/02/2015 21:18								
	Matrix	Solid	Solid	Solid								
EPA 8270C		Units Result	ug/Kg MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Phenanthrene	85-01-8	54.6	7.55	1660	1400	81	50 - 121	1670	1390	80	1	30
Phenol	108-95-2	0.00	9.07	1660	1130	68	34 - 121	1670	1100	66	3	30
Pyrene	129-00-0	202	4.61	1660	1610	85	47 - 127	1670	1550	81	4	30
Surrogate												
2,4,6-Tribromophenol	118-79-6	2490	75	3320	2520	76	39 - 132	3330	2730	82	8	NA
2-Fluorobiphenyl	321-60-8	1290	77	1660	1220	73	44 - 115	1670	1260	76	3	NA
2-Fluorophenol	367-12-4	2490	75	3320	2310	70	35 - 115	3330	2310	69	0	NA
Nitrobenzene-d5	4165-60-0	1230	74	1660	1160	70	37 - 122	1670	1150	69	1	NA
Phenol-d5	4165-62-2	2710	81	3320	2450	74	33 - 122	3330	2420	73	1	NA
Terphenyl-d14	1718-51-0	1580	95	1660	1530	92	54 - 127	1670	1540	92	1	NA

Inorganics QC Summary

Analytical Batch 555115	Client ID GCAL ID	MB555083 1428806	LCS555083 1428807
Prep Batch 555083	Sample Type	MB	LCS
Prep Method EPA 7470A	Prep Date	03/27/2015 17:40	03/27/2015 17:40
	Analysis Date	03/28/2015 09:30	03/28/2015 09:32
	Matrix	Water	Water
EPA 7470A		Units Result	mg/L MDL
Mercury	7439-97-6	0.000043U	0.000043
		Spike Added	Result
		%R	Control Limits%R
		88	80 - 120

Analytical Batch 555115	Client ID GCAL ID	AS-032415-SW-01 21503271519	1428776MS 1428808	1428776MSD 1428809
Prep Batch 555083	Sample Type	SAMPLE	MS	MSD
Prep Method EPA 7470A	Prep Date	03/27/2015 17:40	03/27/2015 17:40	03/27/2015 17:40
	Analysis Date	03/28/2015 09:34	03/28/2015 09:36	03/28/2015 09:38
	Matrix	Water	Water	Water
EPA 7470A		Units Result	mg/L MDL	Spike Added
Mercury	7439-97-6	0.0	0.000043	0.0050
		Result	%R	Control Limits%R
		0.0051	101	80 - 120
		Spike Added	Result	%R
		0.0050	0.0048	97
		RPD	RPD	Limit
		6	20	

Analytical Batch 555118	Client ID GCAL ID	MB555000 1428462	LCS555000 1428463
Prep Batch 555000	Sample Type	MB	LCS
Prep Method EPA 7471B	Prep Date	03/27/2015 16:30	03/27/2015 16:30
	Analysis Date	03/28/2015 11:15	03/28/2015 11:17
	Matrix	Solid	Solid
EPA 7471B		Units Result	mg/kg MDL
Mercury	7439-97-6	0.0040U	0.0040
		Spike Added	Result
		0.25	0.22
		%R	Control Limits%R
		90	80 - 120

Analytical Batch 555118	Client ID GCAL ID	AS-032415-SS-08 21503271516	AS-032415-SS-08 MS 21503271517	AS-032415-SS-08 MSD 21503271518
Prep Batch 555000	Sample Type	SAMPLE	MS	MSD
Prep Method EPA 7471B	Prep Date	03/27/2015 16:30	03/27/2015 16:30	03/27/2015 16:30
	Analysis Date	03/28/2015 11:56	03/28/2015 11:58	03/28/2015 12:05
	Matrix	Solid	Solid	Solid
EPA 7471B		Units Result	mg/kg MDL	Spike Added
Mercury	7439-97-6	0.018	0.0040	0.25
		Result	%R	Control Limits%R
		0.26	99	80 - 120
		Spike Added	Result	%R
		0.25	0.26	99
		RPD	RPD	Limit
		0	20	

Analytical Batch 555116	Client ID GCAL ID	MB555081 1428802	LCS555081 1428803
Prep Batch 555081	Sample Type	MB	LCS
Prep Method EPA 3050B	Prep Date	03/27/2015 15:35	03/27/2015 15:35
	Analysis Date	03/28/2015 18:06	03/28/2015 18:11
	Matrix	Solid	Solid
EPA 6020A		Units Result	ug/Kg MDL
Arsenic	7440-38-2	10.0U	10.0
Barium	7440-39-3	14.5	2000
Cadmium	7440-43-9	10.0U	10.0
Chromium	7440-47-3	10.0U	2000
Lead	7439-92-1	10.0U	10.0
Selenium	7782-49-2	10.0U	400
Silver	7440-22-4	10.0U	2000
		Spike Added	Result
		%R	Control Limits%R
		1840	92
		2000	80 - 120
		1990	99
		1910	80 - 120
		1900	95
		2040	80 - 120
		372	102
		400	80 - 120
		1800	93
		90	80 - 120

Inorganics QC Summary

Analytical Batch 555116	Client ID GCAL ID 21503271516	AS-032415-SS-08 21503271517	AS-032415-SS-08 MS 21503271517				AS-032415-SS-08 MSD 21503271518				
Prep Batch 555081	Sample Type Prep Date 03/27/2015 15:35	SAMPLE	MS 03/27/2015 15:35				MSD 03/27/2015 15:35				
Prep Method EPA 3050B	Analysis Date 03/28/2015 21:55	Solid	03/28/2015 22:04				03/28/2015 22:14				
EPA 6020A		Units Result	ug/Kg MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD
Arsenic	7440-38-2	617	100	2000	1380	38*	80 - 120	2000	1450	42*	5
Barium	7440-39-3	58900	100	2000	64600	286*	80 - 120	2000	68600	484*	6
Cadmium	7440-43-9	150	100	2000	2070	96	80 - 120	2000	2180	101	5
Chromium	7440-47-3	20500	100	2000	28300	387*	80 - 120	2000	28400	394*	0
Lead	7439-92-1	64200	100	2000	74000	491*	80 - 120	2000	78000	689*	5
Selenium	7782-49-2	0.0	100	400	0.0	0*	80 - 120	400	0.0	0*	0
Silver	7440-22-4	0.0	100	2000	1750	88	80 - 120	2000	1840	92	5

Analytical Batch 555116	Client ID GCAL ID 1428804	MB555082 1428805	LCS555082 1428805				
Prep Batch 555082	Sample Type MB	LCS 03/27/2015 15:00					
Prep Method EPA 3010A	Prep Date 03/27/2015 15:00	03/28/2015 15:09					
EPA 6020A		Units Result	ug/L MDL	Spike Added	Result	%R	Control Limits%R
Arsenic	7440-38-2	0.25U	0.25	50.0	46.3	93	80 - 120
Barium	7440-39-3	0.25U	0.25	50.0	48.8	98	80 - 120
Cadmium	7440-43-9	0.25U	0.25	50.0	47.0	94	80 - 120
Chromium	7440-47-3	0.25U	0.25	50.0	46.4	93	80 - 120
Lead	7439-92-1	0.25U	0.25	50.0	49.8	100	80 - 120
Selenium	7782-49-2	0.25U	0.25	10.0	9.41	94	80 - 120
Silver	7440-22-4	0.25U	0.25	50.0	45.0	90	80 - 120

Analytical Batch 555258	Client ID GCAL ID 21503271303	B82-MW-306D-032515 21503271310	B82-MW-306D-032515 MS 21503271310				B82-MW-306D-032515 MSD 21503271311				
Prep Batch 555082	Sample Type SAMPLE	MS 03/27/2015 15:00									
Prep Method EPA 3010A	Prep Date 03/27/2015 15:00	03/27/2015 15:00									
EPA 6020A		Units Result	ug/L MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD
Arsenic	7440-38-2	0.80	0.25	50.0	49.1	97	80 - 120	50.0	49.0	96	0
Chromium	7440-47-3	2.40	0.25	50.0	51.3	98	80 - 120	50.0	50.9	97	1



7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

CHAIN OF CUSTODY RECORD

Client ID: 4449 - Tetra Tech

SDG: 215032715



Due Date: 04/08/15

Report to:		Bill to:		Analytical Requests & Method												GCAL use only:							
Client: <u>Tetra Tech</u> Address: <u>1755 Evergreen Blvd</u> <u>Bldg. 200, Suite 300, Duluth, GA 30096</u> Contact: <u>Leslie Shaver</u> Phone: <u>678-325-9276</u> E-mail: <u>leslie.shaver@tetratech.com</u>		Client: <u>same</u> Address: Contact: Phone: E-mail:														Custody Seal used <input checked="" type="checkbox"/> yes <input type="checkbox"/> no intact <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <u>C8</u> Temperature °C <u>13.4E24</u>							
P.O. Number		Project Name/Number														<input type="checkbox"/> Dissolved Analysis Requested <input type="checkbox"/> Field filtered <input type="checkbox"/> Lab filtered							
Sampled By:		<u>Darren Wilson, Chris Jones</u>																					
Matrix ¹	Date	Time (2400)	Comp	Grab	Sample Description		No Containers↓													Preservative			
S	03/24/15	0950	X		AS-032415-55-01		1													1			
		1018	X		AS-032415-55-02		1													2			
		1027	X		AS-032415-55-03		1													3			
		1042	X		AS-032415-55-04		1													4			
		1050	X		AS-032415-55-05		1													5			
		1110	X		AS-032415-50-01		1													6			
		1130	X		AS-032415-50-02		1													7			
		1135	X		AS-032415-50-03		1													8			
		1145	X		AS-032415-50-04		1													9			
		1200	X		AS-032415-50-05		1													10			
		1210	X		AS-032415-50-06		1													11			
		1220	X		AS-032415-50-07		1													12			
		1240	X		AS-032415-50-08		1													13			
Air Bill No: <u>7732 2130 8816 47804 01061 8519 08</u>																							
Turn Around Time (Business Days): <input type="checkbox"/> 24h* <input type="checkbox"/> 48h* <input type="checkbox"/> 3 days* <input type="checkbox"/> 1 week* <input checked="" type="checkbox"/> Standard (Per Contract/Quote)																							
Delinquished by: (Signature) <u>Chris D. Raw</u>		Date: <u>3/26/15</u>		Time: <u>10:30</u>		Received by: (Signature) <u>Hugo Awez</u>		Date: <u>3/26/15</u>		Time: <u>9:03</u>		Note:											
Retrieved by: (Signature) <u>Hugo Awez</u>		Date: <u>3/26/15</u>		Time: <u>14:30</u>		Received by: (Signature) <u>Reddy</u>		Date: <u>3/26/15</u>		Time: <u>14:30</u>													
Delinquished by: (Signature) <u>Reddy</u>		Date: <u>3/26/15</u>		Time: <u>10:30</u>		Received by: (Signature) <u>Dorothy McCune</u>		Date: <u>3/26/15</u>		Time: <u>10:30</u>		By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.											
Matrix: W = water, S = solid, L = liquid, T = tissue. <input checked="" type="checkbox"/> DNM *Requires prior approval, rush charges may apply. <input checked="" type="checkbox"/> DNM We cannot accept verbal changes. Please email written changes to your PM.																							

WHITE CLIENT FINAL REPORT - CANARY: CLIENT



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CHAIN OF CUSTODY RECORD

Client ID: 4449 - Tetra Tech

SDG: 215032715



Due Date: 04/08/15

Report to:		Bill to:		Analytical Requests & Method				GCAL use only:			
Client: <u>Tetra Tech</u> Address: <u>1955 Evergreen Blvd.</u> <u>Bldg 200, Suite 300, Duluth, GA 30096</u> Contact: <u>Leslie Shaver</u> Phone: <u>678-325-9276</u> E-mail: <u>leslie.shaver@tetratech.com</u>		Client: <u>same</u> Address: Contact: Phone: E-mail:						Custody Seal used <input type="checkbox"/> yes <input type="checkbox"/> no intact <input type="checkbox"/> yes <input type="checkbox"/> no <u>c8</u> Temperature °C <u>13, +24</u>			
P.O. Number		Project Name/Number						<input type="checkbox"/> Dissolved Analysis Requested <input type="checkbox"/> Field filtered <input type="checkbox"/> Lab filtered			
Sampled By: <u>Darren Wilson, Chris Jones</u>											
Matrix ¹	Date	Time (2400)	Comp	Grab	Sample Description		No Containers↓	Preservative			
S	03/24/15	1352	X	AS-032415-55-Q6			1	XX	14		
S	1405		X	AS-032415-55-Q7			1	XX	15		
S	1511		X	AS-032415-55-Q8			3	XX	MS/MSD 16/17/18		
W	1430		X	AS-032415-5W-Q1			3	2	19		
W	1445		X	AS-032415-EQ-Q1			3	2	20		
S	1505		X	AS-032415-55-Q6-DUP			1	XX	21		
W	3/24/15	1640		AS-032415-FB-Q1 *				XX	22		
Air Bill No: <u>7732 2136 8816 - 7804 01001 8519 08</u>											
Turn Around Time (Business Days): <input type="checkbox"/> 24h* <input type="checkbox"/> 48h* <input type="checkbox"/> 3 days* <input type="checkbox"/> 1 week* <input checked="" type="checkbox"/> Standard (Per Contract/Quote)											
Released by: <u>Don Wilson</u>		Date: <u>3/26/15</u>	Time: <u>9:03</u>	Received by: <u>Don Wilson</u>		Date: <u>3/26/15</u>	Time: <u>9:03</u>	Note: * added per client 3/30			
Released by: <u>Don Wilson</u>		Date: <u>3/26/15</u>	Time: <u>9:30</u>	Received by: <u>FedEx</u>		Date: <u>3/26/15</u>	Time: <u>9:30</u>				
Released by: <u>FedEx</u>		Date: <u>3/26/15</u>	Time: <u>10:30</u>	Received by: <u>Don McCune</u>		Date: <u>3/26/15</u>	Time: <u>10:30</u>	By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.			
Matrix ¹ : W = water, S = solid, L = liquid, T = tissue <u>DNM</u>											
*Requires prior approval, rush charges may apply. <u>DNM</u>											
We cannot accept verbal changes. Please email written changes to your PM. <u>DNM</u>											

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT



SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 215032715	
Client 4449 - Tetra Tech	Transport Method FEDEX
Profile Number 258686	Received By Saucier, Charlotte M.
Line Item(s) 1 - 4.1 TCL/TAL Water 2 - 4.1 TCL/TAL Soil	Receive Date(s) 03/27/15

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
When used, were all custody seals intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all samples received in proper containers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all samples received using proper chemical preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was preservative added to any container at the lab?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were all containers received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all VOA vials received with no head space?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do all sample labels match the Chain of Custody?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did the Chain of Custody list the sampling technician?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was the COC maintained i.e. all signatures, dates and time of receipt included?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COOLERS		
Airbill	Thermometer ID: E26	Temp(°C)
7732 2136 8816		1.3

DISCREPANCIES	LAB PRESERVATIONS
21503271522 - AS-032415-FB-01: Extra Sample - Not Listed on COC	None

NOTES

Revision 1.4

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